

**FWEC/Church Road TCE Site
Final Remedial Investigation Report
Mountain Top, Luzerne County, Pennsylvania**

TABLES

Table 1-1
Summary of Surrounding Industrial Properties
Mountain Top RI/FS
Mountain Top, Pennsylvania

Text and Figure Identification Key ⁽¹⁾	Most Recent Occupant (Date ⁽²⁾)	Street Address	Location	Current Facility Operations	Former Occupants (Date ⁽²⁾)	Former Facility Operations	Specific Features of Environmental Significance
2a	Fabri-Kal (leases the property since October 1999)	955 Oak Hill Road	West-southwest of former FWEC Facility; west of Oak Hill Road, northwest of the bend in the road from south to east, and near the northeastern boundary of the Affected Area.	Operations consist of printing onto plastic cups/containers, then shipping the products off-site.	Calex (prior to Fabri-Kal); undeveloped (circa 1984)	Unknown	No hazardous waste is produced at the Fabri-Kal facility; only a small amount of residual waste is produced at the facility, most material is recycled. The documentation also states that the waste generated at the facility is municipal office waste.
2b	i2M (acquired HPG in May 2009)	755 Oak Hill Road	West-southwest of the former FWEC Facility; along Oak Hill Road, northwest of the bend in Oak Hill Road from south to east.	--	HPG International (April 11, 1994 to May 2009); Huls America, Inc. (January 1988 to April 1994); Diamond-Shamrock (circa 1984)	HPG produced a wide array of polyvinyl chloride (PVC) and vinyl goods, including but not limited to, swimming pool liners, flat roofing products, and shower pan liners.	Multiple vertical and horizontal storage tanks from 1966 through 2005, including 10 vertical and 10 horizontal storage tanks depicted along the south side of the building in 2005; mounded material immediately west of the building (which in 1981 did not support vegetation; in 1988, supported vegetation over the majority except the northern part where a large ground scar was observed; and in 1992 was covered with vegetation and did not appear to have been recently disturbed); an open storage area west of the building where crates, containers, and possible rubble/debris was depicted from 1988 until 2005.
2c	Quaker Oats/Gatorade (or predecessors 1987)	750 Oak Hill Road	Southwest of the former FWEC Facility; northeast of the bend in Oak Hill Road from south to east, and north of the eastern portion of the Affected Area.	Non-alcoholic bottled beverage (e.g., Gatorade products) manufacturing and storage.	SVC or Stokely's (unk); The American Cigar Company or the American Tobacco Company (unk to 1987); Facility constructed between 1959 and 1966.	At SVC or Stokely's, TCE was not used in manufacturing, production or day-to-day operations at the 750 Oak Hill Road property/facility; did utilize other solvents (i.e., d-limonene); no solvent spills or releases according to EPA's 104(e) questionnaire. According to the Agency for Toxic Substances and Disease Registry (ATSDR), the use of TCE to reduce nicotine in tobacco is a potential occupational source of exposure to TCE.	Large diameter vertical storage tank immediately east of facility in 1966. Additional tanks present by 1981, 1992, and 2005. Five former gasoline, fuel oil and waste tanks, and wastewater holding pond were present at the property (D&M, 1987). Circa 1966, drainage ditch extends south from near the storage tank, towards small, rectangular shaped impoundment containing standing liquid. Immediately to east is a much larger, square-shaped impoundment with standing liquid. Possible outfall likely connects the two impoundments (1966 to circa 1981). By 1969, ditch terminates near small building (instead of small rectangular impoundment). By 1988, just a building foundation, and drainage ditch rerouted to east, connecting directly to the impoundment. Drainage ditch and impoundment filled by 1992, and ground surface supports vegetation. Circa 1969, two trails and an access road extend east from near the building and terminate at two areas of disturbed ground and ground scars at the forest edge (one area no longer visible on aerial photography/re-vegetated by 1988).

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2d	Bergen Machine (April 2003)	1120 Oak Hill Road	Southwest of the former FWEC Facility; east of the bend in Oak Hill Road from the south to east, and northeast of the eastern portion of the Affected Area.	Manufacture of molds for concrete block machines; TCE has not been used in any process according to Bergen Machine.	RCA#2; purchased from Cornell Iron Works; Facility constructed between 1959 and 1966.	Waste oil is generated from metal cutting and grinding. An old closed water treatment site that was used with the previous site owners was on-site (circa 2004) and appeared to have been closed/not operated for years (PADEP, 2004). A March 6, 1975 letter from the former property occupant, RCA#2, to the Pennsylvania Bureau of Air Quality and Noise Control lists operations conducted by RCA#2 that utilized TCE. The letter indicates TCE was used for degreasing and bake ovens at the RCA#2 facility and was used for degreasing and clean up stations at the RCA#3 facility located north and west of RCA#2.	Debris areas were depicted in the 1966 (mound east of the current building's location) and 2005 aerial photographs.
2e	CertainTeed Corporation (purchased in 1962; operations began in 1964)	1220 Oak Hill Road	South of the former FWEC Facility, near the southeastern corner of Crestwood Industrial Park, at the intersection of Church and Oak Hill Roads.	Manufacture of wool fiberglass. Currently utilize Safety-Kleen cleaning solvents; TCE has not been used in manufacturing, production, or day-to-day operations according to CertainTeed. MSDS for Safety Kleen parts cleaner does not include TCE, but it does include tetrachloroethene (PCE), which is a compound related to TCE.	Paul Corporation (unk to 1962); Facility was constructed between 1959 and 1966.	Manufacture of ceiling tiles, wall panels, and other fiberglass products.	Vertical and/or horizontal tanks depicted on aerial photographs between 1966 and 2005. Possible impoundment containing standing liquid in northwestern portion circa 1966, along with two drainage paths (one from building and one appearing to originate near the possible impoundment) draining towards certain saturated material on the property. By 1969, northwestern impoundment is no longer discerned; possible impoundment containing liquid located on the western portion of the property. Large quantities of fill deposited in northwest portion of property circa 1966, with additional fill by 1969. Waste paint-related materials generated from parts cleaner unit at facility classified as hazardous for TCE per its Toxicity Characteristic Leaching Procedure (TCLP) hazardous waste code (D040) (PADEP, 2005). In February 2006, chemical odor and yellowish-brown liquid noted at depth of approximately 8 to 12 feet bgs, also metal pieces (possibly from buried drum or pail) within the trailer parking lot in northern portion of property (Forensic, 2007; 2009). Subsequent excavation activities removed drums from below the surface. Seven separate materials were visually identified in the drums, and samples of materials included detections of PCE (two materials) and TCE (one material).

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2e	CertainTeed Corporation [cont'd]						Groundwater grab samples in April and September 2006 indicated concentrations of PCE, TCE, cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride. Groundwater sample analyses from August 2008 through January 2009 from monitoring wells installed by CertainTeed detected VOCs, including acrylonitrile, acrolein, benzene, toluene, ethylbenzene, total xylenes, chloroform, chloroethane, 1,4-dioxane, cis-1,2-DCE, and vinyl chloride. Concentrations of TCE and 1,1,1-trichloroethane (1,1,1-TCA) were detected in samples collected from monitoring well EPA-2DR during the August 2008 through January 2009 sampling events.
2f	Former HPG Warehouse (1997; as of September 2009, property vacant)	1335 Oak Hill Road (Building referred to as Cornell #1 in February 13, 2004 Lease Agreement)	Southwest of former FWEC Facility; near southeastern corner of Crestwood Industrial Park, at the intersection of Church and Oak Hill Roads, and east of the eastern extent of the Affected Area.	Storing, handling, selling, or dealing in roofing materials and other products and materials.	Cornell Iron Works (unk to 1997); Facility constructed between 1959 and 1966.	See Cornell Iron Works below.	Fill material and small open storage area housing crates depicted near facility in 1966 aerial photograph. Ground scars and/or disturbed ground noted in 1981 (immediately northwest of facility), 1992 and 2005. Small pool of possible standing liquid depicted in grassy area adjacent to parking area in 1988. Circa 2005, possible small containers indicated in aerial photograph.
2g	Cornell Iron Works (March 2001)	100 Elmwood Road	West-southwest of the former FWEC Facility; at the southern terminus of Elmwood Road and north of the Affected Area (an area of relatively new development in Crestwood Industrial Park).	Manufacture of rolling steel doors and grilles to provide closure products to the commercial and industrial building market. Solvents are used, e.g., methyl ethyl ketone to test the cure status of paint. According to Cornell, TCE never used in any of its manufacturing processes or day to day operations.	Facility constructed between 1992 and 2005. Previously, property was undeveloped, and no previous owners utilized this facility.	None.	No environmentally significant features were depicted at the property based on the June 2005 aerial photography. No hazardous wastes or hazardous waste storage areas on-site circa April 2005 (PADEP, 2005).

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Text and Figure Identification Key ⁽¹⁾	Most Recent Occupant (Date ⁽²⁾)	Street Address	Location	Current Facility Operations	Former Occupants (Date ⁽²⁾)	Former Facility Operations	Specific Features of Environmental Significance
2h	MarChem Northeast	855 Oak Hill Road	West-southwest of former FWEC Facility; along Oak Hill Road as it bends from south to east, near the northeastern boundary of the Affected Area.	Manufacture of polyvinyl chloride (PVC) plastisols in liquid form to sell to other companies which make a variety of products. Food grade and industrial raw materials come in tankers, totes, and bags, and products shipped in totes and drums. Operations utilize solvents, e.g., isopropanol, aliphatic hydrocarbons, and aromatic hydrocarbons (petroleum hydrocarbons, naphthalene, trimethylbenzene) for cleaning. TCE has not been used in any of MarChem's processes (PADEP, 2004).	Calex ; Miles Homes Company (circa 1984); Facility was constructed between 1959 and 1966.	Calex formerly utilized the property to re-pack and store Gatorade products.	In 1969, a broad area of light-toned material is depicted alongside the building. Possible debris depicted within the northernmost cleared area, and patches of light- and dark-toned material depicted near and within the southernmost cleared area circa 1981. Probable open storage area containing possible crates also located alongside one square-shaped cleared area. Two open storage areas noted in 1988, one with small crates and containers, second with large containers (near terminus of railroad spur). Also in 1988, the two 1981 cleared areas re-vegetated, although ground scars remain and several piles of light- and dark-toned material in southernmost one. Circa 1992, small ground scar and possible dark-toned material located south of the building while large ground scar present in forest south of facility (vegetated). Open storage area near building not in use by 2005.

NOTES:

(1) The identifications utilized in the table correspond to the numbers/letters in the Data Gap Analysis Report (TtEC, 2009), as well as the text and figures of this Remedial Investigation Report.

(2) unk = date unknown

TABLE 2-1
Bedrock Core Rock Quality Designation Summary
Mountain Top RI/FS
Mountain Top, Pennsylvania

Bedrock Core Location	Sample Date	Core Interval (ft bgs)		RQD
		Top	Bottom	
EB-01	12/16/2010	44.5	49.5	47.5
	12/16/2010	49.5	52	49
	12/16/2010	54.5	59.5	48
	12/16/2010	59.5	64.5	79
	12/16/2010	64.5	69.5	89
	12/17/2010	69.5	74.5	85
	12/17/2010	74.5	79.5	96
	12/17/2010	79.5	83	98
	12/17/2010	84.5	89.5	99
	12/17/2010	89.5	94.5	100
	12/17/2010	94.5	99.5	100
	12/17/2010	99.5	104.5	80
	12/20/2010	104.5	109.5	85
	12/20/2010	109.5	114.5	85
	12/20/2010	114.5	119.5	85
	12/20/2010	119.5	124.5	100
	12/20/2010	124.5	127	90
	12/20/2010	129.5	132	71
	12/20/2010	134.5	139.5	87
	12/20/2010	139.5	144.5	91
	12/21/2010	144.5	147	84
	12/21/2010	149.5	154.5	78.3
	12/21/2010	154.5	159.5	92
	12/21/2010	159.5	164.5	96
	12/21/2010	164.5	169.5	94
	12/21/2010	169.5	174.5	60
	12/21/2010	174.5	176.5	85
	12/21/2010	179.5	184.5	98
	12/21/2010	184.5	189.5	100
	12/21/2010	189.5	194.5	100
	12/21/2010	194.5	199.5	100

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Bedrock Core Location	Sample Date	Core Interval (ft bgs)		RQD
		Top	Bottom	
EB-03	12/27/2010	65	69.3	53
	12/27/2010	69.3	74.3	70
	12/27/2010	74.3	79.1	66
	12/27/2010	79.3	84.3	62
	12/28/2010	84.3	86.3	75
	12/28/2010	89.3	91.8	85
	12/28/2010	94.3	95.8	70
	12/28/2010	99.3	104.3	89
	12/28/2010	104.3	109.3	91
	12/28/2010	109.3	111.3	79
	12/28/2010	114.3	119.3	91
	12/28/2010	119.3	124.3	67
	12/28/2010	124.3	127.5	85
	12/28/2010	129.3	134.3	87
	12/28/2010	134.3	136.5	100
	12/28/2010	139.3	144.3	100
	12/28/2010	144.3	149.3	100
	12/29/2010	149.3	154.3	96
	12/29/2010	154.3	159.3	100
	12/29/2010	159.3	164.3	98
	12/29/2010	164.3	169.3	100
	12/29/2010	169.3	173.8	90
	12/29/2010	174.3	179.3	100
	12/29/2010	179.3	183.3	100
	12/29/2010	184.3	189.3	100
	12/29/2010	189.3	190.8	95
	12/29/2010	194.3	199.3	100

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Bedrock Core Location	Sample Date	Core Interval (ft bgs)		RQD
		Top	Bottom	
RMW-12D	7/20/2011	63.5	65.5	61
	7/20/2011	65.5	70.5	42
	7/20/2011	70.5	75.5	36
	7/20/2011	75.5	79.5	68
	7/20/2011	80.5	85.5	63
	7/20/2011	85.5	90.5	81
	7/20/2011	90.5	95.5	54
	7/20/2011	95.5	100.5	61
	7/20/2011	100.5	105.5	77
	7/21/2011	105.5	110.5	61
	7/21/2011	110.5	115.5	98
	7/21/2011	115.5	120.5	92
	7/21/2011	120.5	125.5	93
	7/21/2011	125.5	130.5	86
RMW-02D	7/21/2011	130.5	135.5	91
	7/21/2011	135.5	140.5	91
	7/21/2011	140.5	145.5	95
	7/21/2011	145.5	150.5	97
	7/26/2011	130	135	48
	7/26/2011	135	140	65
	7/26/2011	140	145	77
	7/26/2011	145	150	88
	7/26/2011	150	155	73
	7/26/2011	155	160	88
	7/26/2011	160	163	77
	7/26/2011	165	170	64

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Bedrock Core Location	Sample Date	Core Interval (ft bgs)		RQD
		Top	Bottom	
RMW-09D	7/28/2011	88.8	90	31
	7/28/2011	90	95	53
	7/28/2011	95	100	73
	7/28/2011	100	105	81
	7/28/2011	105	110	70
	7/28/2011	110	115	90
	7/28/2011	115	120	86
	7/29/2011	120	125	88
	7/29/2011	125	130	90
	7/29/2011	130	135	95
	7/29/2011	135	137	89
	7/29/2011	140	145	100
	1/11/2012	145	146	100
	1/11/2012	146	151	96
	1/11/2012	151	156	50
	1/11/2012	156	161	90.8
	1/11/2012	161	166	96
	1/11/2012	166	171	85
	1/11/2012	171	176	90
	1/11/2012	176	181	96
	1/11/2012	181	186	77.5
	1/11/2012	186	190	93
	1/11/2012	190	195	100
EB-04	8/11/2011	108.2	110.7	83
	8/11/2011	110.7	115.7	85
	8/11/2011	115.7	120.7	78
	8/11/2011	120.7	125	93
	8/12/2011	125	130	91
	8/12/2011	130	135	100
	8/12/2011	135	140	87
	8/12/2011	140	145	100
	8/12/2011	145	150	92
	8/12/2011	150	155	95
	8/12/2011	155	160	100

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Bedrock Core Location	Sample Date	Core Interval (ft bgs)		RQD
		Top	Bottom	
MD-01	8/23/2011	43.5	44.5	38
	8/23/2011	45.5	50.5	42
	8/23/2011	50.5	55.5	58
	8/23/2011	55.5	60.5	68
	8/23/2011	60.5	63.5	30
	8/23/2011	65.5	70.5	58
	8/23/2011	70.5	71.5	82
	8/23/2011	75.5	80	77
	8/23/2011	80.5	85.5	95
	8/23/2011	85.5	90.5	98
RMW-03D	8/25/2011	198	201	42
	8/25/2011	201	206	82
	8/25/2011	206	211	95
	8/25/2011	211	216	85
	8/26/2011	216	221	100
	8/26/2011	221	226	97
	8/26/2011	226	231	100
	8/26/2011	231	236	100
RMW-10D	3/1/2012	155	160	60
	3/1/2012	160	165	51
	3/1/2012	165	170	31
	3/1/2012	170	171	66
	3/1/2012	175	178.5	40
	3/1/2012	180	185	63
	3/2/2012	185	190	38
	3/2/2012	190	195	58
	3/2/2012	195	200	100
	3/2/2012	200	202	90
	3/2/2012	205	209	100
	3/2/2012	210	211.5	98

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Bedrock Core Location	Sample Date	Core Interval (ft bgs)		RQD
		Top	Bottom	
RMW-01D	8/17/2012	140	145	35
	8/17/2012	145	150	58
	8/17/2012	150	155	53
	8/17/2012	155	160	81
	8/20/2012	160	165	70
	8/20/2012	165	170	54
	8/20/2012	170	175	65
	8/20/2012	175	180	91
	8/20/2012	180	185	75
	8/20/2012	185	190	16
	8/20/2012	190	195	68
	8/20/2012	195	200	69
	8/20/2012	200	205	58
	8/20/2012	205	210	80
	8/20/2012	210	215	30
	8/20/2012	215	220	16
	8/20/2012	220	225	93
	8/21/2012	225	230	96
	8/21/2012	230	235	86
	8/21/2012	235	240	92.5
	8/21/2012	240	245	78
	8/21/2012	245	250	86
	8/21/2012	250	255	100
	8/21/2012	255	260	90
	8/21/2012	260	265	85
	8/21/2012	265	270	81
	8/21/2012	270	275	77
	8/21/2012	275	280	88
	8/21/2012	280	285	86
	8/21/2012	285	290	92
	8/21/2012	290	295	76
	8/21/2012	295	300	100
	8/22/2012	300	305	93
	8/22/2012	305	310	93
	8/22/2012	310	315	100
	8/22/2012	315	320	99
	8/22/2012	320	325	100

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Bedrock Core Rock Quality Designation Summary
Mountain Top RI/FS
Mountain Top, Pennsylvania

Bedrock Core Location	Sample Date	Core Interval (ft bgs)		RQD
		Top	Bottom	
RMW-03S	9/6/2012	75	80	58
	9/6/2012	80	85	60
	9/7/2012	85	90	60
	9/7/2012	90	95	96
	9/7/2012	95	100	58
	9/7/2012	100	105	65
	9/7/2012	105	110	61
	9/7/2012	110	115	80
	9/7/2012	115	120	53
	9/7/2012	120	125	55
	9/7/2012	125	130	66
	9/7/2012	130	135	90
	9/7/2012	135	140	100
	9/10/2012	140	145	93
	9/10/2012	145	150	98
	9/10/2012	150	155	98
	9/10/2012	155	160	100
	9/10/2012	160	165	93
	9/10/2012	165	170	90
	9/10/2012	170	175	100
	9/10/2012	175	180	83
	9/10/2012	180	185	96
	9/10/2012	185	190	93
	9/10/2012	190	195	83

TABLE 2-2A
Monitoring Well Construction Summary - Overburden Wells
Mountain Top RI/FS
Mountain Top, Pennsylvania

Overburden Wells									
Well ID	STPL Y (1)	STPL X (1)	Ground Elevation (1)	Total Depth of Borehole (ft bgs)	Elevation of bottom of borehole	Depth to top of screen (ft bgs)	Depth to bottom of screen (ft bgs)	Elevation of top of screen interval	Elevation of bottom of screen interval
RMW-01S-1	355569.013	2483328.833	1582.56	47.00	1535.56	37.00	47.00	1545.56	1535.56
RMW-01S-2	355561.675	2483326.762	1582.16	140.00	1442.16	105.00	115.00	1477.16	1467.16
RMW-02S-1	355360.883	2482919.902	1559.54	48.00	1511.54	43.00	48.00	1516.54	1511.54
RMW-02S-2	355364.589	2482916.175	1559.44	112.00	1447.44	60.00	70.00	1499.44	1489.44
RMW-04S-1	355213.091	2482643.712	1549.52	45.00	1504.52	35.00	45.00	1514.52	1504.52
RMW-04S-2	355215.734	2482630.094	1549.18	72.00	1477.18	60.00	70.00	1489.18	1479.18
RMW-04S-3	355216.914	2482619.386	1549.27	143.00	1406.27	125.00	135.00	1424.27	1414.27
RMW-05S	355188.38	2481953.944	1560.30	119.20	1441.10	109.00	119.00	1451.30	1441.30
RMW-06S	354671.145	2482457.337	1575.26	135.00	1440.26	110.00	120.00	1465.26	1455.26
RMW-07S	355631.099	2480332.109	1558.48	65.00	1493.48	40.00	50.00	1518.48	1508.48
RMW-08S	354481.908	2480790.772	1554.67	105.00	1449.67	70.00	80.00	1484.67	1474.67
RMW-09S-1	353586.393	2479259.793	1470.21	55.00	1415.21	40.00	55.00	1430.21	1415.21
RMW-09S-2	353585.112	2479274.375	1469.62	89.00	1380.62	62.00	67.00	1407.62	1402.62
RMW-10S	354257.992	2477960.234	1400.84	145.00	1255.84	110.00	120.00	1290.84	1280.84
RMW-11S	353211.172	2477814.245	1440.62	80.00	1360.62	60.00	70.00	1380.62	1370.62
RMW-12S	353092.533	2475633.081	1406.83	55.00	1351.83	30.00	40.00	1376.83	1366.83
RMW-13S-1	354964.036	2476148.28	1365.91	55.00	1310.91	45.00	55.00	1320.91	1310.91
RMW-13S-2	354968.19	2476153.778	1363.96	135.00	1228.96	120.00	130.00	1243.96	1233.96
RMW-14S	353392.311	2473753.002	1290.91	60.00	1230.91	24.00	34.00	1266.91	1256.91

Notes:

(1) = Surveyed well locations

TABLE 2-2B
Monitoring Well Construction Summary - Bedrock Wells
Mountain Top RI/FS
Mountain Top, Pennsylvania

Bedrock Wells													
Well/Boring ID	STPL Y (1)	STPL X (1)	Ground Elevation (1)	Depth to Bedrock (ft bgs)	Elevation of Bedrock Surface	Depth of Outer Casing (ft bgs)	Total Depth of Borehole (ft bgs)	Elevation of bottom of borehole	Depth to top of screen (ft bgs)	Depth to bottom of screen (ft bgs)	Elevation of top of screen interval	Elevation of bottom of screen interval	Comments
MD-01	357,862	2,484,175	1623.62	33.5	1590.12	43.50	95.50	1528.12	45.00	60.00	1578.62	1563.62	
EB-01	357,910	2,484,087	1623.83	34	1589.834	44.50	199.50	1424.334	165.00	180.00	1458.83	1443.83	
EB-02	356,122	2,483,647	1585.39	95.5	1489.89	105.50	167.50	1417.89					Blank FLUTe liner installed
EB-03	356,166	2,483,170	1595.65	51	1544.65	65.00	199.30	1396.35	118.00	138.00	1477.65	1457.65	
EB-04	356,143	2,483,600	1582.76	98.00	1484.76	108.00	160.00	1422.76					Blank FLUTe liner installed
RMW-01D	355,552	2,483,322	1581.51	140.00	1441.51	138.00	325.00	1256.51	N/A	N/A	N/A	N/A	Water FLUTe installed - 3 sampling intervals (138-153, 200-215, 298-318)
RMW-02D	355,367	2,482,924	1559.32	95.00	1464.32	129.60	200.00	1359.32	168.00	178.00	1391.32	1381.32	
RMW-03S	353,910	2,483,214	1614.61	75.00	1539.61	78.00	195.00	1419.61	85.00	100.00	1529.61	1514.61	
RMW-03D	353,921	2,483,216	1613.69	165.00	1448.69	198.00	236.00	1377.69	199.00	214.00	1414.69	1399.69	
RMW-06D	354,685	2,482,466	1575.32	130.00	1445.32	150.00	320.50	1254.82	N/A	N/A	N/A	N/A	Original borehole advanced to 200' bgs. This borehole was abandoned and an adjacent borehole advanced to 320.5' bgs. Water FLUTe installed - 7 sampling intervals (155-165, 177-187, 190-200, 242-252, 259-269, 275-285, 309-319)
RMW-07D	355,638	2,480,340	1558.63	62.00	1496.63	68.00	200.00	1358.63	141.00	156.00	1417.63	1402.63	
RMW-08D	354,482	2,480,799	1554.37	105.00	1449.37	120.00	185.00	1369.37	128.00	143.00	1426.37	1411.37	
RMW-09D	353,591	2,479,274	1469.86	82.00	1387.86	88.80	250.00	1219.86	N/A	N/A	N/A	N/A	Original borehole advanced to 145' bgs; borehole was subsequently advanced to 195' bgs, and then to 250' bgs based on packer results. Water FLUTe installed - 6 sampling intervals (95-105, 115-125, 146-156, 176-186, 205-215, 235-245)
RMW-10D	354,266	2,477,953	1400.25	147.00	1253.25	155.00	220.00	1180.25	205.00	215.00	1195.25	1185.25	
RMW-11D	353,216	2,477,819	1440.52	70.00	1370.52	85.00	160.00	1280.52	N/A	N/A	N/A	N/A	Water FLUTe installed - 3 sampling intervals (90-100, 117-127, 150-160)
RMW-12D	353,101	2,475,645	1407.19	52.00	1355.19	62.50	151.00	1256.19	67.00	77.00	1340.19	1330.19	
RMW-13D	354,970	2,476,146	1364.60	133.50	1231.10	165.80	200.00	1164.60	183.00	198.00	1181.60	1166.60	
RMW-14D	353,403	2,473,751	1290.06	50.00	1240.06	63.00	130.00	1160.06	66.00	81.00	1224.06	1209.06	

Notes:

(1) = Surveyed well locations

N/A - Not applicable

TABLE 2-3
Water Elevations
Mountain Top RI/FS
Mountain Top, Pennsylvania

ID	Location	TIC Elevation	Round 1 - May 2013			Round 2 - September 2013			Round 3 - April 2014		
			Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation	Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation	Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation
			(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)
1	CH-1	1,592.40	45.20	44.24	1,548.16	45.00	Dry		45.49	33.03	1,559.37
2	CH-10	1,624.11	60.30	32.69	1,591.42	60.10	37.35	1,586.76	60.02	26.09	1,598.02
3	CH-11	1,637.54	113.00	56.53	1,581.01	119.01	66.85	1,570.69	112.95	40.92	1,596.62
4	CH-12	1,607.02	92.30	50.67	1,556.35	91.96	59.07	1,547.95	91.81	36.03	1,570.99
5	CH-2	1,594.88	27.90	20.03	1,574.85	27.88	16.14	1,578.74	27.72	15.27	1,579.61
6	CH-3	1,613.72	98.00	62.06	1,551.66	100.00	68.09	1,545.63	97.55	50.94	1,562.78
7	CH-3A	1,614.21	20.45	4.73	1,609.48	20.41	7.89	1,606.32	20.31	3.56	1,610.65
8	CH-4	1,624.15	83.00	50.71	1,573.44	92.00	61.12	1,563.03	83.31	36.89	1,587.26
9	CH-5	1,621.07	39.80	29.04	1,592.03	39.82	34.29	1,586.78	39.76	31.74	1,589.33
10	CH-6	1,626.14	35.65	Dry		NM	Dry		35.72	25.47	1,600.67
11	CH-7	1,605.26	58.00	15.55	1,589.71	58.65	25.43	1,579.83	58.49	1.78	1,603.48
12	CH-8	1,606.37	57.45	6.99	1,599.38	57.34	8.48	1,597.89	57.2	5.69	1,600.68
13	CH-9	1,623.46	58.85	34.11	1,589.35	59.20	43.71	1,579.75	58.99	18.29	1,605.17
14	EPA-1D	1,552.93	181.50	4.03	1,548.90	176.18	11.92	1,541.01	NM	Artesian	
15	EPA-2DR	1,583.45	126.60	35.67	1,547.78	124.75	42.80	1,540.65	124.65	24.75	1,558.70
16	EPA-3D	1,579.41	171.22	35.23	1,544.18	168.40	42.30	1,537.11	168.2	26.8	1,552.61
17	FWEC-4R	1,560.07	173.27	13.61	1,546.46	170.26	21.44	1,538.63	170.21	3.14	1,556.93
18	FWEC-5R	1,570.37	133.00	25.50	1,544.87	131.15	35.15	1,535.22	130.08	21.21	1,549.16
19	FWEC-5S	1,570.48	43.55	27.00	1,543.48	42.56	35.15	1,535.33	42.57	17.98	1,552.50
20	FWEC-6M	1,516.62	80.20	36.90	1,479.72	80.35	39.90	1,476.72	80.2	35.31	1,481.31
21	FWEC-6R	1,517.01	174.90	22.60	1,494.41	174.95	28.45	1,488.56	174.7	18.95	1,498.06
22	FWEC-6S	1,515.78	45.25	27.00	1,488.78	45.40	31.32	1,484.46	45.2	24.2	1,491.58
23	MW-1	1,622.08	60.21	34.40	1,587.68	60.30	43.65	1,578.43	60.18	18.14	1,603.94
24	MW-10	1,595.45	112.50	42.19	1,553.26	112.00	50.61	1,544.84	111.91	28.38	1,567.07
25	MW-10D	1,594.67	157.50	41.30	1,553.37	160.00	49.67	1,545.00	157.3	27.61	1,567.06
26	MW-11R	1,599.44	93.40	51.45	1,547.99	93.40	58.73	1,540.71	93.3	39.09	1,560.35
27	MW-12D	1,615.49	93.60	67.42	1,548.07	93.48	74.19	1,541.30	93.51	55.89	1,559.60
28	MW-12	1,616.04	60.80	27.40	1,588.64	60.72	31.49	1,584.55	60.58	22.58	1,593.46
29	MW-13	1,624.31	346.00	62.20	1,562.11	345.90	43.11	1,581.20	345	32.55	1,591.76
30	MW-14D	1,617.58	197.30	44.45	1,573.13	197.06	54.60	1,562.98	196.89	30.54	1,587.04
31	MW-14M	1,618.37	142.60	51.37	1,567.00	142.30	58.46	1,559.91	142.25	40.35	1,578.02
32	MW-14S	1,618.43	85.20	51.73	1,566.70	83.00	58.88	1,559.55	84.92	41.18	1,577.25
33	MW-15S	1,643.12	66.67	10.39	1,632.73	66.70	24.35	1,618.77	NM	NM	

TABLE 2-3
Water Elevations
Mountain Top RI/FS
Mountain Top, Pennsylvania

ID	Location	TIC Elevation	Round 1 - May 2013			Round 2 - September 2013			Round 3 - April 2014		
			Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation	Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation	Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation
			(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)
34	MW-16S	1,623.06	53.60	17.37	1,605.69	53.09	11.86	1,611.20	53.42	8.09	1,614.97
35	MW-17	1,596.02	99.00	50.42	1,545.60	98.00	57.72	1,538.30	98.81	38.69	1,557.33
36	MW-18	1,584.11	50.80	36.15	1,547.96	52.37	44.33	1,539.78	42.11	24.15	1,559.96
37	MW-19	1,603.11	59.00	54.82	1,548.29	58.81	Dry		52.85	42.16	1,560.95
38	MW-2	1,622.87	60.20	42.12	1,580.75	60.18	47.72	1,575.15	60.02	30.94	1,591.93
39	MW-3	1,622.18	59.80	41.54	1,580.64	59.96	43.97	1,578.21	58.32	26.51	1,595.67
40	MW-4	1,625.17	58.80	44.20	1,580.97	59.80	50.95	1,574.22	58.84	26.19	1,598.98
41	MW-5	1,624.23	309.00	49.69	1,574.54	200+	55.33	1,568.90	317.5	35.96	1,588.27
42	MW-6	1,619.45	79.82	25.46	1,593.99	101.00	39.16	1,580.29	93.01	14.14	1,605.31
43	MW-7	1,625.87	107.60	40.33	1,585.54	114.60	47.10	1,578.77	107.49	25.89	1,599.98
44	MW-7S	1,626.29	63.30	40.51	1,585.78	63.18	47.01	1,579.28	63.07	29.43	1,596.86
45	MW-8	1,642.59	88.00	57.69	1,584.90	87.60	67.62	1,574.97	87.43	41.42	1,601.17
46	MW-9	1,625.92	92.00	51.28	1,574.64	91.62	67.66	1,558.26	91.6	37.12	1,588.80
47	MW-9D	1,625.21	163.00	50.17	1,575.04	162.41	61.26	1,563.95	162.43	36.09	1,589.12
48	OW-1	1,622.59	51.00	11.77	1,610.82	59.75	52.76	1,569.83	59.54	25.72	1,596.87
49	OW-10	1,591.15	100.00	45.15	1,546.00	NM	NM		100.1	34.15	1,557.00
50	OW-2	1,622.62	100.00	47.62	1,575.00	NM	NM		206	48.44	1,574.18
51	OW-3	1,622.71	201.00	53.93	1,568.78	55.00	62.88	1,559.83	150.29	143.97	1,478.74
52	OW-4	1,622.51	60.60	45.30	1,577.21	200.00	56.53	1,565.98	99.13	31.54	1,590.97
53	OW-5	1,600.01	100.50	52.32	1,547.69	NM	NM		100.25	39.89	1,560.12
54	OW-6	1,600.22	98.99	52.67	1,547.55	NM	NM		98.65	40.32	1,559.90
55	OW-7	1,599.57	100.40	52.31	1,547.26	NM	NM		100.25	39.89	1,559.68
56	OW-8	1,593.70	NM	NM		NM	NM		105	37.21	1,556.49
57	OW-9	1,591.89	99.50	45.01	1,546.88	NM	NM		98.82	33.72	1,558.17
58	RW-1	1,619.12	NM	NM		NM	NM		NM	NM	
59	RW-2	1,594.26	NM	NM		NM	NM		NM	NM	
60	RW-2R	N/A	N/A	N/A		N/A	N/A		N/A	N/A	
61	RW-2R2	1,593.43	NM	NM		NM	NM		NM	NM	
62	RW-3	1,588.04	NM	NM		NM	NM		NM	NM	
63	RW-3R	1,591.70	NM	NM		NM	NM		NM	NM	
64	RW-4	1,619.91	NM	NM		NM	NM		NM	NM	
65	MD-01	1,624.69	60.50	42.86	1,581.83	60.30	49.40	1,575.29	60.13	25.83	1,598.86

TABLE 2-3
Water Elevations
Mountain Top RI/FS
Mountain Top, Pennsylvania

ID	Location	TIC Elevation	Round 1 - May 2013			Round 2 - September 2013			Round 3 - April 2014		
			Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation	Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation	Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation
			(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)
66	RMW-01S-1	1,582.15	44.68	28.58	1,553.57	44.65	32.62	1,549.53	44	20.28	1,561.87
67	RMW-01S-2	1,581.73	116.50	33.93	1,547.80	114.70	40.90	1,540.83	114.45	23	1,558.73
68	RMW-02S-1	1,559.13	47.79	11.87	1,547.26	47.70	18.40	1,540.73	47.54	2.47	1,556.66
69	RMW-02S-2	1,559.11	70.18	12.30	1,546.81	69.55	18.70	1,540.41	69.32	2.71	1,556.40
70	RMW-04S-1	1,551.97	47.66	6.63	1,545.34	47.45	11.81	1,540.16	47.44	0.01	1,551.96
71	RMW-04S-2	1,551.19	72.40	4.53	1,546.66	69.04	9.56	1,541.63	NM	NM	
72	RMW-04S-3	1,550.98	137.57	2.65	1,548.33	135.76	10.55	1,540.43	136.23	Artesian	
73	RMW-05S	1,559.95	120.68	15.30	1,544.65	118.76	22.85	1,537.10	118.69	5.74	1,554.21
74	RMW-06S	1,577.72	122.50	31.89	1,545.83	121.60	38.79	1,538.93	121.1	23.95	1,553.77
75	RMW-07S	1,559.63	51.72	22.77	1,536.86	51.39	30.50	1,529.13	51.36	14.47	1,545.16
76	RMW-08S	1,557.21	NM	NM		82.51	30.79	1,526.42	82.54	15.66	1,541.55
77	RMW-09S-1	1,470.10	54.00	Artesian		54.10	1.45	1,468.65	54.08	Artesian	
78	RMW-09S-2	1,469.36	65.20	Artesian		65.34	0.10	1,469.26	65.33	Artesian	
79	RMW-10S	1,403.17	121.40	13.30	1,389.87	121.46	15.17	1,388.00	121.4	10.9	1,392.27
80	RMW-11S	1,440.19	69.50	34.82	1,405.37	69.70	38.00	1,402.19	69.4	29.3	1,410.89
81	RMW-12S	1,406.63	39.50	33.15	1,373.48	39.70	34.35	1,372.28	39.5	28.95	1,377.68
82	RMW-13S-1	1,364.22	54.40	12.20	1,352.02	54.35	13.70	1,350.52	54.3	11.2	1,353.02
83	RMW-13S-2	1,362.72	130.00	29.70	1,333.02	129.49	33.04	1,329.68	129.4	24.75	1,337.97
84	RMW-14S	1,290.70	33.60	5.30	1,285.40	33.74	6.64	1,284.06	33.5	4.06	1,286.64
85	RMW-01D (FLUTe)	1,581.03	N/A	NM		N/A	41.35	1,539.68	NM	23.7	1,557.33
86	RMW-01D (FLUTe)	1,581.03	N/A	NM		N/A	40.95	1,540.08	NM	21.75	1,559.28
87	RMW-01D (FLUTe)	1,581.03	N/A	NM		N/A	40.85	1,540.18	NM	20.43	1,560.60
88	RMW-02D	1,559.05	180.40	10.33	1,548.72	177.50	18.52	1,540.53	179.8	0.09	1,558.96
89	RMW-03S (Bedrock)	1,614.20	101.40	14.35	1,599.85	100.00	21.60	1,592.60	99.95	8.42	1,605.78
90	RMW-03D	1,613.21	211.47	17.73	1,595.48	213.78	23.65	1,589.56	208.2	13.32	1,599.89
91	RMW-06D (FLUTe)	1,578.57	N/A	NM		N/A	41.00	1,537.57	NM	25.24	1,553.33
92	RMW-06D (FLUTe)	1,578.57	N/A	NM		N/A	39.27	1,539.30	NM	25.42	1,553.15
93	RMW-06D (FLUTe)	1,578.57	N/A	NM		N/A	42.60	1,535.97	NM	26	1,552.57
94	RMW-06D (FLUTe)	1,578.57	N/A	NM		N/A	36.38	1,542.19	NM	25.66	1,552.91
95	RMW-06D (FLUTe)	1,578.57	N/A	NM		N/A	38.65	1,539.92	NM	25.35	1,553.22
96	RMW-06D (FLUTe)	1,578.57	N/A	NM		N/A	32.80	1,545.77	NM	24.3	1,554.27
97	RMW-06D (FLUTe)	1,578.57	N/A	NM		N/A	45.45	1,533.12	NM	28	1,550.57

TABLE 2-3
Water Elevations
Mountain Top RI/FS
Mountain Top, Pennsylvania

ID	Location	TIC Elevation	Round 1 - May 2013			Round 2 - September 2013			Round 3 - April 2014		
			Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation	Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation	Depth to Bottom (measured)	Depth to Water (measured)	Water Elevation
			(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)
98	RMW-07D	1,560.58	160.47	32.96	1,527.62	157.08	38.83	1,521.75	157.06	27.47	1,533.11
99	RMW-08D	1,556.39	NM	NM		144.73	31.25	1,525.14	144.68	15.73	1,540.66
100	RMW-09D (FLUTE)	1,469.14	N/A	NM		N/A	0.00	1,469.14	NM	Artesian	
101	RMW-09D (FLUTE)	1,469.14	N/A	NM		N/A	0.00	1,469.14	NM	Artesian	
102	RMW-09D (FLUTE)	1,469.14	N/A	NM		N/A	0.00	1,469.14	NM	Artesian	
103	RMW-09D (FLUTE)	1,469.14	N/A	NM		N/A	32.40	1,436.74	NM	11.38	1,457.76
104	RMW-09D (FLUTE)	1,469.14	N/A	NM		N/A	50.77	1,418.37	NM	45.9	1,423.24
105	RMW-09D (FLUTE)	1,469.14	N/A	NM		N/A	101.05	1,368.09	NM	46.07	1,423.07
106	RMW-10D	1,403.07	217.70	20.00	1,383.07	217.68	20.85	1,382.22	217.22	17.42	1,385.65
107	RMW-11D (FLUTE)	1,440.25	N/A	NM		N/A	37.55	1,402.70	NM	28.2	1,412.05
108	RMW-11D (FLUTE)	1,440.25	N/A	NM		N/A	38.89	1,401.36	NM	30.95	1,409.30
109	RMW-11D (FLUTE)	1,440.25	N/A	NM		N/A	40.48	1,399.77	NM	32.94	1,407.31
110	RMW-12D	1,406.77	76.30	33.10	1,373.67	76.50	34.25	1,372.52	76.3	29.1	1,377.67
111	RMW-13D	1,364.27	199.00	26.60	1,337.67	198.95	23.32	1,340.95	198.83	26.5	1,337.77
112	RMW-14D	1,289.78	67.20	0.00	1,289.68	68.00	0.50	1,289.28	67	0.1	1,289.68
113	EB-01	1,624.51	167.00	61.88	1,562.63	167.00	44.84	1,579.67	166.91	18.46	1,606.05
114	EB-02	N/A	N/A	N/A		N/A	N/A		N/A	N/A	
115	EB-03	1,596.69	135.00	49.52	1,547.17	134.00	47.54	1,549.15	134.8	31.81	1,564.88
116	EB-04	N/A	N/A	N/A		N/A	N/A		N/A	N/A	
117	SG#1	1,590.97	N/A	NM		N/A	3.24	1,587.73	N/A	3.25	1,587.72
118	SG#2	1,582.82	N/A	NM		N/A	3.18	1,579.64	N/A	2.3	1,580.52
119	SG#3	1,547.54	N/A	NM		N/A	2.39	1,545.15	N/A	2.07	1,545.47
120	SG#4	1,527.08	N/A	NM		N/A	3.18	1,523.90	N/A	3.14	1,523.94
121	SG#5	1,441.84	N/A	NM		N/A	3.25	1,438.59	N/A	3.1	1,438.74
122	SG#6	1,409.22	N/A	NM		N/A	3.06	1,406.16	N/A	3	1,406.22
123	SG#7	1,351.21	N/A	NM		N/A	3.34	1,347.87	N/A	3.2	1,348.01
124	SG#8	1,310.92	N/A	NM		N/A	3.54	1,307.38	N/A	3.5	1,307.42

Notes:

N/A - Not applicable

NM - Not measured

TIC - Top inner casing (outer casing where no inner casing present)

TABLE 3-1
RMW-01D Step Drawdown Results
Mountain Top RI/FS
Mountain Top, Pennsylvania

RMW-01D (Pumping Well)					RMW-02D		RMW-06D	
Time	Pumping Rate (gpm)	Depth to Water (feet)	Step Duration (min)	Pumping Rate During Step (gpm)	Time	Depth to Water (feet)	Time	Depth to Water (feet)
10:17	start	34.80						
10:18	2.3							
	2.3				10:20	11.67	10:20	34.99
10:47	2.3	35.60	32.0	2.3				
10:50	4.2		25.0	4.2	10:50	11.73	10:50	34.99
11:15	6.1							
	6.1				11:20	11.82	11:20	35.02
11:29	6.1	37.90	27.0	6.1				
11:42	8.1		29.0	8.1				
	8.1				11:50	11.89	11:50	35.04
12:11	9.9							
12:15	9.9	38.75						
	9.9				12:25	11.93	12:25	35.04
13:00	9.9							
13:36	9.9	39.00						
13:45	end		94.0	9.9				
13:46	0	37.00						

Test Summary

Total Test Duration 207.00 min

Maximum drawdown

Pumping well

4.20 ft

RMW-02D

0.26 ft

(approximately 450 feet from pumping well)

RMW-06D

0.05 ft

(approximately 1245 feet from pumping well)

Weighted avg. pumping rate

7.29 gpm

Specific Capacity

1.74 gpm/ft

TABLE 3-2
Vertical Gradient Analysis - Rounds 1, 2 and 3
Mountain Top RI/FS
Mountain Top, Pennsylvania

Well Cluster	Gradient Direction	No. of Wells In Cluster
MW-7	neutral	2
MW-14	neutral in the upper interval and typically upward in the lower interval	3
MW-9	neutral	2
CH-3/CH-3A	down	2
MW-12	down	2
MW-10	neutral	2
RMW-01	neutral	3
RMW-02	neutral	3
RMW-03	neutral	2
RMW-04/EPA1D	neutral	4
RMW-05S/FWEC-4R	neutral	2
FWEC-5	neutral	2
RMW-06	mixed	8
RMW-07	mixed	2
RMW-08	neutral	2
FWEC-6	Shallow downward, then upward at lower intervals	3
RMW-09	shallow neutral conditions, then downward in lower sections	8
RMW-10	neutral	2
RMW-11	neutral	4
RMW-12	neutral	2
RMW-13	mixed	3
RMW-14	mixed	2

Notes:

Gradients between 0.1 and -0.1 feet were considered neutral

Gradients >0.1 are considered downward

Gradients <-0.1 are considered upward

TABLE 3-3
Horizontal Gradient Analysis - Rounds 1, 2 and 3
Mountain Top RI/FS
Mountain Top, Pennsylvania

Transect ID	Well ID.	Flow Path Length (ft)	Round 1 GW Elev (ft msl)	Round 1 Delta GW Elev. (ft msl)	Round 1 Gradient (ft/ft)	Round 2 GW Elev. (ft msl)	Round 2 Delta GW Elev. (ft msl)	Round 2 Gradient (ft/ft)	Round 3 GW Elev. (ft msl)	Round 3 Delta GW Elev. (ft msl)	Round 3 Gradient (ft/ft)	Average Gradient (ft/ft)
Upper Plume	CH-5		1592.0			1584.5			1593			
	MW-14	372	1575.0	17.0	0.046	1569.0	15.5	0.042	1590	3.0	0.008	0.032
	EB-03	1028	1553.0	22.0	0.021	1547.0	22.0	0.021	1565	25.0	0.024	0.022
	Total	1401		39.0	0.028		37.5	0.027		28.0	0.020	0.025
Middle Plume, RW-2R Area	CH-3A		1597.0			1594.0			1599			
	RW-2R	425	1557.0	40.0	0.094	1563.0	31.0	0.073	1557	42.0	0.099	0.089
Middle to Distal North	RMW-3		1592.0			1586.5			1598			
	RMW-8	2578	1535.0	57.0	0.022	1527.0	59.5	0.023	1542	56.0	0.022	0.022
	RMW-10	2908	1395.0	140.0	0.048	1393.0	134.0	0.046	1398	144.0	0.050	0.048
	RMW-13	1937	1354.0	41.0	0.021	1353.0	40.0	0.021	1355.5	42.5	0.022	0.021
	Total	7423		238.0	0.032		233.5	0.031		242.5	0.033	0.032
Distal Southern	FWEC-6		1488.0			1483.0			1491.0			
	RMW-11	1751	1404.5	83.5	0.048	1401.5	81.5	0.047	1409.0	82.0	0.047	0.047
	RMW-12	1631	1370.0	34.5	0.021	1368.0	33.5	0.021	1373	36.0	0.022	0.021
	RMW-14	2488	1289.0	81.0	0.033	1288.0	80.0	0.032	1291	82.0	0.033	0.033
	Total	5870		199.0	0.034		195.0	0.033		200.0	0.034	0.034

Notes:

ft=feet

msl= mean sea level

ft/ft= feet vertical per foot horizontal

TABLE 4-1A
Soil Vapor Criteria for Vapor Intrusion Evaluation
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA
		Target Soil Gas Concentration
1,1,1-Trichloroethane	71-55-6	1.74E+04
1,1,2,2-Tetrachloroethane	79-34-5	1.61E+00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	1.04E+05
1,1,2-Trichloroethane	79-00-5	6.95E-01
1,1-Dichloroethane	75-34-3	5.85E+01
1,1-Dichloroethene	75-35-4	6.95E+02
1,2,3-Trimethylbenzene	526-73-8	1.74E+01
1,2,4-Trichlorobenzene	120-82-1	6.95E+00
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	5.63E-03
1,2-Dibromoethane	106-93-4	1.56E-01
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	76-14-2	--
1,2-Dichlorobenzene	95-50-1	6.95E+02
1,2-Dichloroethane	107-06-2	3.60E+00
1,2-Dichloropropane	78-87-5	9.36E+00
1,3,4-Trimethylbenzene (1,2,4-Trimethylbenzene)	95-63-6	2.43E+01
1,3,5-Trimethylbenzene	108-67-8	--
1,3-Butadiene	106-99-0	3.12E+00
1,3-Dichlorobenzene	541-73-1	--
1,4-Dichlorobenzene	106-46-7	8.51E+00
1,4-Difluorobenzene	540-36-3	--
1,4-Dioxane	123-91-1	1.87E+01
1-Butanol	71-36-3	--
2,2,4-Trimethylpentane (Isooctane)	540-84-1	--
2-Butanone (Methyl ethyl ketone)	78-93-3	1.74E+04
2-Ethyltoluene	611-14-3	--
2-Hexanone	591-78-6	1.04E+02
2-Methyl-2-propanol	75-65-0	--
2-Propanol (Isopropanol)	67-63-0	6.95E+02
3-Chloro-1-propene (Allyl Chloride)	107-05-1	3.48E+00
3-Ethyltoluene	620-14-4	--
4-Bromofluorobenzene	460-00-4	--
4-Ethyltoluene	622-96-8	--
4-Isopropyltoluene	99-87-6	--
4-Methyl-2-pentanone	108-10-1	1.04E+04
Acetone	67-64-1	1.08E+05
Acetonitrile	75-05-8	2.09E+02
Acrolein	107-02-8	6.95E-02
Acrylonitrile	107-13-1	1.38E+00
alpha-Methylstyrene	98-83-9	--
alpha-Pinene	80-56-8	--
Benzene	71-43-2	1.20E+01
Benzyl Chloride	100-44-7	1.91E+00
Bromochloromethane	74-97-5	1.39E+02
Bromodichloromethane	75-27-4	2.53E+00
Bromoform	75-25-2	8.51E+01
Bromomethane	74-83-9	1.74E+01
Carbon disulfide	75-15-0	2.43E+03
Carbon tetrachloride	56-23-5	1.56E+01
Chlorobenzene	108-90-7	1.74E+02
Chloroethane	75-00-3	3.48E+04
Chloroform	67-66-3	4.07E+00
Chloromethane	74-87-3	3.13E+02
cis-1,2-Dichloroethene	156-59-2	--
cis-1,3-Dichloropropene	10061-01-5	--
Cyclohexane	110-82-7	2.09E+04

TABLE 4-1A
Soil Vapor Criteria for Vapor Intrusion Evaluation
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA
		Target Soil Gas Concentration
Dibromochloromethane	124-48-1	--
Dichlorodifluoromethane (Freon 12)	75-71-8	3.48E+02
Diisopropyl Ether	108-20-3	2.43E+03
d-Limonene	5989-27-5	--
Ethanol	64-17-5	--
Ethyl Acetate	141-78-6	2.43E+02
Ethyl tert-Butyl Ether	637-92-3	--
Ethylbenzene	100-41-4	3.74E+01
Formaldehyde	50-00-0	7.20E+00
Hexachlorobutadiene	87-68-3	4.25E+00
Isopropyl Acetate	108-21-4	--
Isopropylbenzene (Cumene)	98-82-8	1.39E+03
Methanol	67-56-1	6.95E+04
Methyl Methacrylate	80-62-6	2.43E+03
Methyl tert-butyl ether (MTBE)	1634-04-4	3.60E+02
Methylene chloride	75-09-2	2.09E+03
Naphthalene	91-20-3	2.75E+00
n-Butyl Acetate	123-86-4	--
n-Decane	124-18-5	--
n-Heptane	142-82-5	--
n-Hexane	110-54-3	2.43E+03
n-Nonane	111-84-2	6.95E+01
n-Octane	111-65-9	--
n-Propylbenzene	103-65-1	3.48E+03
n-Undecane	1120-21-4	--
Propene (Propylene)	115-07-1	1.04E+04
sec-Butylbenzene	135-98-8	--
Styrene	100-42-5	3.48E+03
tert-Amyl Methyl Ether	994-05-8	--
Tetrachloroethene (PCE)	127-18-4	1.39E+02
Tetrahydrofuran (THF)	109-99-9	6.95E+03
Toluene	108-88-3	1.74E+04
trans-1,2-Dichloroethene	156-60-5	--
trans-1,3-Dichloropropene	10061-02-6	--
Trichloroethene (TCE)	79-01-6	6.95E+00
Trichlorofluoromethane (Freon 11)	75-69-4	--
Vinyl Acetate	108-05-4	6.95E+02
Vinyl chloride	75-01-4	5.59E+00
Xylene, p-	106-42-3	3.48E+02
Xylene, m-	108-38-3	3.48E+02
Xylene, o-	95-47-6	3.48E+02
Xylenes (total)	1330-20-7	3.48E+02

Notes:

All criteria reported in ug/m³.

-- Indicates no criteria for this constituent.

CAS - Chemical Abstract Service

ug/m³ - micrograms per cubic meter

USEPA - United States Environmental Protection Agency

Target screening concentrations calculated with the USEPA Vapor Intrusion Screening Level (VISL) Calculator (Version 3.4). The calculator utilized the following parameters: residential exposure scenario, risk for carcinogens [TR] of 1E-06 and hazard quotient for non-carcinogens [THQ] of 0.1.

TABLE 4-1B
Indoor Air Screening Criteria for Vapor Intrusion Evaluation
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA
		Target Indoor Air Concentration
1,1,1-Trichloroethane	71-55-6	5.21E+02
1,1,2,2-Tetrachloroethane	79-34-5	4.84E-02
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	3.13E+03
1,1,2-Trichloroethane	79-00-5	2.09E-02
1,1-Dichloroethane	75-34-3	1.75E+00
1,1-Dichloroethene	75-35-4	2.09E+01
1,2,3-Trimethylbenzene	526-73-8	5.21E-01
1,2,4-Trichlorobenzene	120-82-1	2.09E-01
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	1.69E-04
1,2-Dibromoethane	106-93-4	4.68E-03
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	76-14-2	--
1,2-Dichlorobenzene	95-50-1	2.09E+01
1,2-Dichloroethane	107-06-2	1.08E-01
1,2-Dichloropropane	78-87-5	2.81E-01
1,3,4-Trimethylbenzene (1,2,4-Trimethylbenzene)	95-63-6	7.30E-01
1,3,5-Trimethylbenzene	108-67-8	--
1,3-Butadiene	106-99-0	9.36E-02
1,3-Dichlorobenzene	541-73-1	--
1,4-Dichlorobenzene	106-46-7	2.55E-01
1,4-Difluorobenzene	540-36-3	--
1,4-Dioxane	123-91-1	5.62E-01
1-Butanol	71-36-3	--
2,2,4-Trimethylpentane (Isooctane)	540-84-1	--
2-Butanone (Methyl ethyl ketone)	78-93-3	5.21E+02
2-Ethyltoluene	611-14-3	--
2-Hexanone	591-78-6	3.13E+00
2-Methyl-2-propanol	75-65-0	--
2-Propanol (Isopropanol)	67-63-0	2.09E+01
3-Chloro-1-propene (Allyl Chloride)	107-05-1	1.04E-01
3-Ethyltoluene	620-14-4	--
4-Bromofluorobenzene	460-00-4	--
4-Ethyltoluene	622-96-8	--
4-Isopropyltoluene	99-87-6	--
4-Methyl-2-pentanone	108-10-1	3.13E+02
Acetone	67-64-1	3.23E+03
Acetonitrile	75-05-8	6.26E+00
Acrolein	107-02-8	2.09E-03
Acrylonitrile	107-13-1	4.13E-02
alpha-Methylstyrene	98-83-9	--
alpha-Pinene	80-56-8	--
Benzene	71-43-2	3.60E-01
Benzyl Chloride	100-44-7	5.73E-02
Bromochloromethane	74-97-5	4.17E+00
Bromodichloromethane	75-27-4	7.59E-02
Bromoform	75-25-2	2.55E+00
Bromomethane	74-83-9	5.21E-01
Carbon disulfide	75-15-0	7.30E+01
Carbon tetrachloride	56-23-5	4.68E-01
Chlorobenzene	108-90-7	5.21E+00
Chloroethane	75-00-3	1.04E+03
Chloroform	67-66-3	1.22E-01
Chloromethane	74-87-3	9.39E+00
cis-1,2-Dichloroethene	156-59-2	--

TABLE 4-1B
Indoor Air Screening Criteria for Vapor Intrusion Evaluation
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA
		Target Indoor Air Concentration
cis-1,3-Dichloropropene	10061-01-5	--
Cyclohexane	110-82-7	6.26E+02
Dibromochloromethane	124-48-1	--
Dichlorodifluoromethane (Freon 12)	75-71-8	1.04E+01
Diisopropyl Ether	108-20-3	7.30E+01
d-Limonene	5989-27-5	--
Ethanol	64-17-5	--
Ethyl Acetate	141-78-6	7.30E+00
Ethyl tert-Butyl Ether	637-92-3	--
Ethylbenzene	100-41-4	1.12E+00
Formaldehyde	50-00-0	2.16E-01
Hexachlorobutadiene	87-68-3	1.28E-01
Isopropyl Acetate	108-21-4	--
Isopropylbenzene (Cumene)	98-82-8	4.17E+01
Methanol	67-56-1	2.09E+03
Methyl Methacrylate	80-62-6	7.30E+01
Methyl tert-butyl ether (MTBE)	1634-04-4	1.08E+01
Methylene chloride	75-09-2	6.26E+01
Naphthalene	91-20-3	8.26E-02
n-Butyl Acetate	123-86-4	--
n-Decane	124-18-5	--
n-Heptane	142-82-5	--
n-Hexane	110-54-3	7.30E+01
n-Nonane	111-84-2	2.09E+00
n-Octane	111-65-9	--
n-Propylbenzene	103-65-1	1.04E+02
n-Undecane	1120-21-4	--
Propene (Propylene)	115-07-1	3.13E+02
sec-Butylbenzene	135-98-8	--
Styrene	100-42-5	1.04E+02
tert-Amyl Methyl Ether	994-05-8	--
Tetrachloroethene (PCE)	127-18-4	4.17E+00
Tetrahydrofuran (THF)	109-99-9	2.09E+02
Toluene	108-88-3	5.21E+02
trans-1,2-Dichloroethene	156-60-5	--
trans-1,3-Dichloropropene	10061-02-6	--
Trichloroethene (TCE)	79-01-6	2.09E-01
Trichlorofluoromethane (Freon 11)	75-69-4	--
Vinyl acetate	108-05-4	2.09E+01
Vinyl chloride	75-01-4	1.68E-01
Xylenes (total)	1330-20-7	1.04E+01

Notes:

All criteria reported in ug/m³.

-- Indicates no criteria for this constituent.

CAS - Chemical Abstract Service

ug/m³ - micrograms per cubic meter

USEPA - United States Environmental Protection Agency

Target screening concentrations calculated with the USEPA Vapor Intrusion Screening Level (VISL) Calculator (Version 3.4). The calculator utilized the following parameters: residential exposure scenario, risk for carcinogens [TR] of 1E-06 and hazard quotient for non-carcinogens [THQ] of 0.1.

TABLE 4-1C
Groundwater Screening Criteria for Vapor Intrusion Evaluation
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA
		Target Groundwater Concentration
Volatile Organic Compounds		
1,1,1-Trichloroethane	71-55-6	7.42E+02
1,1,2,2-Tetrachloroethane	79-34-5	3.23E+00
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1.45E+02
1,1,2-Trichloroethane	79-00-5	6.19E-01
1,1-Dichloroethane	75-34-3	7.64E+00
1,1-Dichloroethene	75-35-4	1.95E+01
1,2,3-Trichlorobenzene	87-61-6	--
1,2,4-Trichlorobenzene	120-82-1	3.59E+00
1,2-Dibromo-3-chloropropane	96-12-8	2.81E-02
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	1.76E-01
1,2-Dichlorobenzene	95-50-1	2.66E+02
1,2-Dichloroethane	107-06-2	2.24E+00
1,2-Dichloropropane	78-87-5	2.44E+00
1,3-Dichlorobenzene	541-73-1	--
1,3-Dichloropropene	542-75-6	4.84E+00
1,4-Dichlorobenzene	106-46-7	2.59E+00
1,4-Dioxane	123-91-1	2.86E+03
2-Butanone (Methyl ethyl ketone)	78-93-3	2.24E+05
2-Chloroethyl vinyl ether	110-75-8	--
2-Hexanone	591-78-6	8.21E+02
4-Isopropyltoluene (Cymene)	99-87-6	--
4-Methyl-2-pentanone (Methyl isobutyl ketone)	108-10-1	5.55E+04
Acetone	67-64-1	2.26E+06
Acrolein	107-02-8	4.18E-01
Acrylonitrile	107-13-1	7.32E+00
Benzene	71-43-2	1.59E+00
Bromochloromethane	74-97-5	6.99E+01
Bromodichloromethane	75-27-4	8.76E-01
Bromoform (Tribromomethane)	75-25-2	1.17E+02
Bromomethane	74-83-9	1.74E+00
Carbon Disulfide	75-15-0	1.24E+02
Carbon Tetrachloride	56-23-5	4.15E-01
Chlorobenzene	108-90-7	4.10E+01
Chloroethane	75-00-3	2.30E+03
Chloroform	67-66-3	8.14E-01
Chloromethane	74-87-3	2.60E+01
cis-1,2-Dichloroethene	156-59-2	--
Cyclohexane	110-82-7	--
Dibromochloromethane	124-48-1	--
Dichlorodifluoromethane (Freon 12)	75-71-8	7.44E-01
Ethylbenzene	100-41-4	3.49E+00
Formaldehyde	50-00-0	1.57E+04
Isopropyl benzene (Cumene)	98-82-8	8.87E+01
Methyl tert-butyl ether (MTBE)	1634-04-4	4.50E+02
Methylcyclohexane	108-87-2	--
Methylene chloride (Dichloromethane)	75-09-2	4.71E+02
m-Xylene	108-38-3	3.55E+01

TABLE 4-1C
Groundwater Screening Criteria for Vapor Intrusion Evaluation
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA
		Target Groundwater Concentration
o-Xylene	95-47-6	4.92E+01
p-Xylene	106-42-3	3.70E+01
Styrene	100-42-5	9.28E+02
Tetrachloroethene (PCE)	127-18-4	5.76E+00
Toluene	108-88-3	1.92E+03
Total Trihalomethanes	NA	--
trans-1,2-Dichloroethene	156-60-5	--
Trichloroethene (TCE)	79-01-6	5.18E-01
Trichlorofluoromethane	75-69-4	--
Vinyl acetate	108-05-4	9.98E+02
Vinyl chloride	75-01-4	1.47E-01
Xylenes (total)	1330-20-7	3.85E+01
Semi-Volatile Organic Compounds		
1,2,3-Trichlorobenzene	87-61-6	--
1,2,4,5-Tetrachlorobenzene	95-94-3	--
1,2,4-Trichlorobenzene	120-82-1	3.59E+00
1,2-Dichlorobenzene	95-50-1	2.66E+02
1,2-Diphenylhydrazine	122-66-7	--
1,3-Dichlorobenzene	541-73-1	--
1,4-Dichlorobenzene	106-46-7	2.59E+00
2,3,4,6-Tetrachlorophenol	58-90-2	--
2,4,5-Trichlorophenol	95-95-4	--
2,4,6-Trichlorophenol	88-06-2	--
2,4-Dichlorophenol	120-83-2	--
2,4-Dimethylphenol	105-67-9	--
2,4-Dinitrophenol	51-28-5	--
2,4-Dinitrotoluene	121-14-2	--
2,6-Dinitrotoluene	606-20-2	--
2-Chloronaphthalene	91-58-7	--
2-Chlorophenol	95-57-8	--
2-Methylnaphthalene	91-57-6	--
2-Methylphenol (o-Cresol)	95-48-7	--
2-Nitroaniline	99-09-2	--
2-Nitrophenol	88-75-5	--
3,3'-Dichlorobenzidine	91-94-1	--
3-Nitroaniline	99-09-2	--
4,6-Dinitro-2-methylphenol	534-52-1	--
4-Bromophenyl phenyl ether	101-55-3	--
4-Chloro-3-methylphenol	59-50-7	--
4-Chloroaniline	106-47-8	--
4-Chlorophenyl phenyl ether	7005-72-3	--
4-Methylphenol (p-Cresol)	106-44-5	--
4-Nitroaniline	100-01-6	--
4-Nitrophenol	100-02-7	--
Acenaphthene	83-32-9	--
Acenaphthylene	208-96-8	--
Acetophenone	98-86-2	--
Anthracene	120-12-7	--

TABLE 4-1C
Groundwater Screening Criteria for Vapor Intrusion Evaluation
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA
		Target Groundwater Concentration
Atrazine	1912-24-9	--
Benzaldehyde	100-52-7	--
Benzidine	92-87-5	--
Benzo(a)anthracene	56-55-3	--
Benzo(a)pyrene	50-32-8	--
Benzo(b)fluoranthene	205-99-2	--
Benzo(g,h,i)perylene	191-24-2	--
Benzo(k)fluoranthene	207-08-9	--
Benzoic acid	65-85-0	--
Benzyl alcohol	100-51-6	--
Biphenyl	92-52-4	3.31E+00
Bis(2-chloroethoxy) methane	111-91-1	--
Bis(2-chloroethyl)ether	111-44-4	--
Bis(2-chloroisopropyl)ether	108-60-1	--
Bis(2-ethylhexyl)phthalate	117-81-7	--
Butylbenzylphthalate	85-68-7	--
Caprolactam	105-60-2	--
Carbazone	86-74-8	--
Chrysene	218-01-9	--
Dibenzo(a,h)anthracene	53-70-3	--
Dibenzofuran	132-64-9	--
Diethylphthalate	84-66-2	--
Dimethylphthalate	131-11-3	--
Di-n-butylphthalate	84-74-2	--
Di-n-octyl phthalate	117-84-0	--
Fluoranthene	206-44-0	--
Fluorene	86-73-7	--
Hexachlorobenzene	118-74-1	8.78E-02
Hexachlorobutadiene	87-68-3	3.03E-01
Hexachlorocyclopentadiene	77-47-4	1.89E-02
Hexachloroethane	67-72-1	1.60E+00
Indeno(1,2,3-cd)pyrene	193-39-5	--
Isophorone	78-59-1	--
Naphthalene	91-20-3	4.59E+00
Nitrobenzene	98-95-3	7.15E+01
n-Nitrosodimethylamine	62-75-9	9.73E-01
n-Nitrosodi-n-propylamine	621-64-7	--
n-Nitrosodiphenylamine	86-30-6	--
Pentachlorophenol	87-86-5	--
Phenanthrene	85-01-8	--
Phenol	108-95-2	--
Pyrene	129-00-0	--
Inorganics		
Aluminum	7429-90-5	--
Antimony	7440-36-0	--
Arsenic	7440-38-2	--
Barium	7440-39-3	--
Beryllium	7440-41-7	--

TABLE 4-1C
Groundwater Screening Criteria for Vapor Intrusion Evaluation
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA
		Target Groundwater Concentration
Cadmium	7440-43-9	--
Calcium	7440-70-2	--
Chromium	7440-47-3	--
Cobalt	7440-48-4	--
Copper	7440-50-8	--
Iron	7439-89-6	--
Lead	7439-92-1	--
Magnesium	7439-95-4	--
Manganese	7439-96-5	--
Mercury	7439-97-6	8.89E-02
Nickel	7440-02-0	--
Potassium	7440-09-7	--
Selenium	7782-49-2	--
Silver	7440-22-4	--
Sodium	7440-23-5	--
Thallium	7440-28-0	--
Vanadium	7440-62-2	--
Zinc	7440-66-6	--

Notes:

All concentrations are reported in ug/L.

-- Indicates no criteria for this constituent.

ug/L - micrograms per liter

USEPA - United States Environmental Protection Agency

Target screening concentrations calculated with the USEPA Vapor Intrusion Screening Level (VISL) Calculator (Version 3.4). The calculator utilized the following parameters: residential exposure scenario, risk for carcinogens [TR] of 1E-06 and hazard quotient for non-carcinogens [THQ] of 0.1.

TABLE 4-1D
Surface Soil Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA								PADEP										Most Stringent EPA Industrial RSL (to be used for summary comparison)			
		Industrial Soil RSLs		Residential Soil RSLs		USEPA Region 3 BTAG 1995 Screening Levels		Ecological SSLs	Residential Direct Contact MSCs (0-15 feet)	Non-Residential Direct Contact MSCs (0-2 feet)	MSCs - Soil to Groundwater Numeric Values					PA Defaults Residential Volatilization to Indoor Air Screen	USEPA-PA Defaults Non-Residential Volatilization to Indoor Air Screen	USEPA-PA Defaults Non-Residential Indoor Air PEIs Volatilization to Indoor Air Screen					
		Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total	Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total	Flora	Fauna				Used Aquifer; TDS ≤ 2500												
		100 x GW MSC	Generic Value	100 x GW MSC	Generic Value						100 x GW MSC	Generic Value											
Volatile Organic Compounds																							
1,1,1-Trichloroethane	71-55-6	--	36000	--	8100	< 0.3 ⁽³⁾	< 0.3 ⁽³⁾	--	10,000	10,000	20	7.2	20	7.2	120	170	580	36,000					
1,1,2,2-Tetrachloroethane	79-34-5	2.7	23000	0.6	1600	< 0.3 ⁽²⁾	< 0.3 ⁽²⁾	--	7.7	38	0.084	0.026	0.43	0.13	1.2	2.0	880	2.7					
1,1,2-Trichloroethane	79-00-5	5	6.3	1.1	1.5	< 0.3 ⁽³⁾	< 0.3 ⁽³⁾	--	28	140	0.5	0.15	0.5	0.15	1.4	2.4	1,300	5					
1,1-Dichloroethane	75-34-3	16	230000	3.6	16000	< 0.3	< 0.3	--	280	1,400	3.1	0.75	16	3.9	1.6	2.7	1,200	16					
1,1-Dichloroethene	75-35-4	--	1000	--	230	--	--	--	3,800	10,000	0.7	0.19	0.7	0.19	5.5	7.6	790	1000					
1,2-Dichlorobenzene	95-50-1	--	9300	--	1800	< 0.1	< 0.1	--	3,800	10,000	60	59	60	59	150	150	150	9300					
1,2-Dichloroethane	107-06-2	2	140	0.46	31	--	870	--	17	86	0.5	0.1	0.5	0.1	0.49	0.83	1,700	2					
1,2-Dichloropropane	78-87-5	4.4	66	1	16	--	--	--	45	220	0.5	0.11	0.5	0.11	0.52	0.88	630	4.4					
1,3-Dichlorobenzene	541-73-1	--	--	--	--	--	--	--	660	8,400	60	61	60	61	--	--	--	--					
1,3-Dichloropropene (cis- and trans-)	542-75-6	8.2	310	1.8	72	< 0.3 ⁽¹⁾	< 0.3 ⁽¹⁾	--	110	560	0.66	0.12	2.6	0.46	0.20	0.34	550	8.2					
1,4-Dichlorobenzene	106-46-7	11	25000	2.6	3400	< 0.1	< 0.1	--	40	200	7.5	10	7.5	10	7.5	13	--	11					
1,4-Dioxane	123-91-1	24	4500	5.3	810	--	--	--	58	290	20	2.6	20	2.6	200	340	130000	24					
2-Butanone (Methyl ethyl ketone)	78-93-3	--	190000	--	27000	--	--	--	10,000	10,000	400	76	400	76	10,000	14,000	53,000	190000					
2-Chloroethyl vinyl ether	110-75-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
2-Hexanone	591-78-6	--	1300	--	200	--	--	--	96	400	1.1	0.27	4.4	1.1	--	--	--	1300					
4-Isopropyltoluene (Cymene)	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
4-Methyl-2-pentanone (MIBK)	108-10-1	--	56000	--	5300	--	100	--	10,000	10,000	290	45	820	130	84	120	3,000	56000					
Acetone	67-64-1	--	670000	--	61000	--	--	--	10,000	10,000	3,300	370	9,200	1,000	110,000	110,000	110,000	670000					
Acrolein	107-02-8	--	0.6	--	0.14	--	--	--	0.38	1.6	0.0042	0.00047	0.018	0.002	0.042	0.059	500	0.6					
Acrylonitrile	107-13-1	1.1	67	0.25	16	--	--	--	6.6	33	0.072	0.01	0.37	0.051	1.1	1.8	10000	1.1					
Benzene	71-43-2	5.1	420	1.2	82	0.1	0.1	--	57	290	0.5	0.13	0.5	0.13	0.37	0.63	380	5.1					
Bromodichloromethane	75-27-4	1.3	23000	0.29	1600	--	450	--	12	60	8	2.7	8	2.7	0.51	0.85	1,600	1.3					
Bromoform	75-25-2	86	23000	19	1600	--	1147	--	410	2,000	8	3.5	8	3.5	94	160	1,300	86					
Bromomethane (Methyl bromide)	74-83-9	--	30	--	6.8	--	--	--	96	400	1	0.54	1	0.54	0.95	1.3	9,600	30					
Carbon disulfide	75-15-0	--	3500	--	770	--	--	--	10,000	10,000	150	130	620	530	47	66	1,900	3500					
Carbon tetrachloride	56-23-5	2.9	570	0.65	100	< 0.3	< 0.3	--	30	150	0.5	0.26	0.5	0.26	0.074	0.12	440	2.9					
Chlorobenzene	108-90-7	--	1300	--	280	--	0.1	--	960	4,000	10	6.1	10	6.1	9.0	13	300	1300					
Chloroethane	75-00-3	--	57000	--	14000	--	--	--	6,200	10,000	23	5	90	19	1.1	1.8	1,300	57000					
Chloroform	67-66-3	1.4	1000	0.32	200	< 0.3	< 0.3	--	19	97	8	2	8	2	0.053	0.074	2,100	1.4					
Chloromethane (Methyl chloride)	74-87-3	--	460	--	110	--	--	--	250	1,200	--	--	--	--	0.38	0.64	890	460					
cis-1,2-Dichloroethene	156-59-2	--	2300	--	160	< 0.3	< 0.3	--	2,200	10,000	7	1.6	7	1.6	5.4	7.6	840	2300					
Dibromochemicalmethane	124-48-1	3.3	23000	0.75	1600	--	--	--	17	82	8	2.5	8	2.5	1.3	2.2	1,300	3.3					
Dichlorodifluoromethane (Freon 12)	75-71-8	--	370	--	87	--	--	--	3,900	10,000	100	100	100	100	1.9	2.6	480	370					
Ethylbenzene	100-41-4	25	20000	5.8	3400	0.1	0.1	--	10,000	10,000	70	46	70	46	5.7	9.5	110	25					
Formaldehyde	50-00-0	73	3300	17	760	--	--	--	34	170	100	12	100	12	420	710	6,600	73					
Isopropyl benzene (Cumene)	98-82-8	--	9900	--	1900	--	--	--	7,700	10,000	84	600	350										

TABLE 4-1D
Surface Soil Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA								PADEP								Most Stringent EPA Industrial RSL (to be used for summary comparison)					
		Industrial Soil RSLs		Residential Soil RSLs		USEPA Region 3 BTAG 1995 Screening Levels		Ecological SSLs	Residential Direct Contact MSCs (0-15 feet)	Non-Residential Direct Contact MSCs (0-2 feet)	MSCs - Soil to Groundwater Numeric Values				PA Defaults Residential Volatile to Indoor Air Screen	USEPA-PA Defaults Non-Residential Indoor Air PEIs Volatile to Indoor Air Screen	USEPA-PA Defaults Non-Residential Indoor Air PEIs Volatile to Indoor Air Screen						
		Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total	Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total	Flora	Fauna				Used Aquifer; TDS ≤ 2500												
											100 x GW MSC	Generic Value	100 x GW MSC	Generic Value									
2-Nitrophenol	88-75-5	--	--	--	--	--	--		1,800	22,000	29	5.9	82	17	--	--	--	--					
3,3'-Dichlorobenzidine	91-94-1	5.1	--	1.2	--	--	--		40	180	0.15	8.3	0.58	32	--	--	--	5.1					
3-Nitroaniline	99-09-2	--	--	--	--	--	--		66	840	1.1	0.17	3.1	0.48	--	--	--	--					
4,6-Dinitro-2-methylphenol	534-52-1	--	66	--	5.1	--	--		22	280	0.37	0.28	1	0.75	--	--	--	66					
4-Bromophenyl phenyl ether	101-55-3	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--					
4-Chloro-3-methylphenol	59-50-7	--	82000	--	6300	--	--		1,100	14,000	18	37	51	110	--	--	--	82000					
4-Chloroaniline	106-47-8	11	3300	2.7	250	--	--		90	400	0.33	0.42	1.3	1.6	--	--	--	11					
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--					
4-Methylphenol (p-Cresol)	106-44-5	--	82000	--	6300	--	--		1,100	14,000	18	4.2	51	12	--	--	--	82000					
4-Nitroaniline	100-01-6	110	3300	27	250	--	--		880	4,000	3.3	0.49	13	1.9	--	--	--	110					
4-Nitrophenol	100-02-7	--	--	--	--	0.1	0.1		1,800	22,000	6	4.1	6	4.1	--	--	--	--					
Acenaphthene	83-32-9	--	45000	--	3600	0.1	0.1		13,000	170,000	220	2,700	380	4,700	--	--	--	45000					
Acenaphthylene	208-96-8	--	--	--	--	0.1	0.1		13,000	170,000	220	2,500	610	6,900	--	--	--	--					
Anthracene	120-12-7	--	230000	--	18000	0.1	0.1		66,000	190,000	6.6	350	6.6	350	--	--	--	230000					
Benzo(a)anthracene	56-55-3	2.9	--	0.16	--	0.1	0.1		5.7	110	0.029	25	0.36	320	--	--	--	2.9					
Benzo(a)pyrene	50-32-8	0.29	--	0.016	--	0.1	--		0.57	11	0.02	46	0.02	46	--	--	--	0.29					
Benzo(b)fluoranthene	205-99-2	2.9	--	0.16	--	0.1	0.1		5.7	110	0.029	40	0.12	170	--	--	--	2.9					
Benzo(g,h,i)perylene	191-24-2	--	--	--	--	0.1	0.1		13,000	170,000	0.026	180	0.026	180	--	--	--	--					
Benzo(k)fluoroanthene	207-08-9	29	--	1.6	--	0.1	0.1		57	1,100	0.055	610	0.055	610	--	--	--	29					
Bis(2-chloroethoxy)methane	111-91-1	--	2500	--	190	--	--		660	8,400	11	2.9	31	8.2	--	--	--	2500					
Bis(2-chloroethyl)ether	111-44-4	1	--	0.23	--	--	--		1.3	6.7	0.015	0.0045	0.076	0.023	4.2	7.1	3,100	1					
Bis(2-chloroisopropyl)ether	108-60-1	22	47000	4.9	3100	--	--		44	220	30	8	30	8	16	28	450	22					
Bis(2-ethylhexyl)phthalate	117-81-7	160	16000	39	1300	--	--		1,300	5,700	0.6	130	0.6	130	--	--	--	160					
Butyl benzyl phthalate	85-68-7	1200	160000	290	13000	--	--		9,400	10000	35	3,000	140	10,000	--	--	--	1200					
Carbazole	86-74-8	--	--	--	--	--	--		900	4,000	3.3	21	13	83	--	--	--	--					
Chrysene	218-01-9	290	--	16	--	0.1	0.1		570	11,000	0.19	230	0.19	230	--	--	--	290					
Dibenzo(a,h)anthracene	53-70-3	0.29	--	0.016	--	0.1	0.1		0.57	11	0.0029	13	0.036	160	--	--	--	0.29					
Dibenzofuran	132-64-9	--	1000	--	73	--	--		220	2,800	3.7	95	10	260	--	--	--	1000					
Diethylphthalate	84-66-2	--	660000	--	51000	--	--		10,000	10,000	2,900	910	8,200	2,600	--	--	--	660000					
Dimethylphthalate	131-11-3	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--					
Di-n-butylphthalate	84-74-2	--	82000	--	6300	--	--		10,000	10,000	370	1,500	1,000	4,100	--	--	--	82000					
Di-n-octyl phthalate	117-84-0	--	8200	--	630	--	--		8,800	10,000	150	10,000	300	10,000	--	--	--	8200					
Fluoranthene	206-44-0	--	30000	--	2400	0.1	0.1		8,800	110,000	26	3,200	26	3,200	--	--	--	30000					
Fluorene	86-73-7	--	30000	--	2400	0.1	0.1		8,800	110,000	150	3,000	190	3,800	--	--	--	30000					
Hexachlorobenzene	118-74-1	0.96	930	0.21	63	--	--		11	50	0.1	0.96	0.1	0.96	--	--	--	0.96					
Hexachlorobutadiene	87-68-3	5.3	1200	1.2	78	--	--		220	1,000	0.85	10	3.3	39	--	--	--	5.3					
Hexachlorocyclopentadiene	77-47-4	--	7.5	--	1.8	--	--		1,300	10,000	5	91	5	91	--	--	--	7.5					
Hexachloroethane	67-72-1	8	460	1.8	45	--	--		110	550	0.1	0.56	0.1	0.56	--	--	--	8					
Indeno[1,2,3-cd]pyrene	193-39-5	2.9	--	0.16	--	0.1	0.1		5.7	110	0.029	2,200	0.36	28,000	--	--	--	2.9					
Isophorone	78-59-1	2400	160000	570	13000	--	--		10,000	10,000	10	1.9	10	1.9	--	--	--	2400					
Naphthalene	91-20-3	17	590	3.8	130	0.1	0.1		4,400	56,000	10	25	10	25	64	--	--	17					
Nitrobenzene	98-95-3	22	1300	5.1	130	--	--		440	5,600	7.3	3.2</											

TABLE 4-1D
Surface Soil Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA								PADEP										Most Stringent EPA Industrial RSL (to be used for summary comparison)		
		Industrial Soil RSLs		Residential Soil RSLs		USEPA Region 3 BTAG 1995 Screening Levels		Ecological SSLs	Residential Direct Contact MSCs (0-15 feet)	Non-Residential Direct Contact MSCs (0-2 feet)	MSCs - Soil to Groundwater Numeric Values				PA Defaults Residential Volatile to Indoor Air Screen	USEPA-PA Defaults Non-Residential Volatile to Indoor Air Screen	USEPA-PA Defaults Non-Residential Indoor Air PELs Volatile to Indoor Air Screen					
		Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total	Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total	Flora	Fauna				100 x GW MSC	Generic Value	100 x GW MSC	Generic Value								
Heptachlor epoxide	1024-57-3	0.33	15	0.07	1	< 0.1	< 0.1	--	2	8.7	0.02	1.1	0.02	1.1	--	--	--	--	0.33			
Methodoxychlor	72-43-5	--	4100	--	320	< 0.1	< 0.1	--	1,100	14,000	4	630	4	630	--	--	--	--	4100			
Toxaphene	8001-35-2	2.1	--	0.49	--	--	--	--	16	72	0.3	1.2	0.3	1.2	--	--	--	--	2.1			
Herbicides																						
2,4,5-T	93-76-5	--	8200	--	630	--	--	--	2,200	28,000	7	1.5	7	1.5	--	--	--	--	8200			
2,4,5-TP (Silvex)	93-72-1	--	6600	--	510	--	--	--	1,800	22,000	5	22	5	22	--	--	--	--	6600			
2,4-D	94-75-7	--	9600	--	700	--	--	--	2,200	28,000	7	1.8	7	1.8	--	--	--	--	9600			
2,4-DB	94-82-6	--	6600	--	510	--	--	--	--	--	--	--	--	--	--	--	--	--	6600			
Dicamba	1918-00-9	--	25000	--	1900	--	--	--	6,600	84,000	400	45	400	45	--	--	--	--	25000			
Dichlorprop	120-36-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MCPA	94-74-6	--	410	--	32	--	--	--	110	1,400	3	1.2	3	1.2	--	--	--	--	410			
MCPP	93-65-2	--	820	--	63	--	--	--	--	--	--	--	--	--	--	--	--	--	820			
PCBs																						
Aroclor 1016	12674-11-2	27	51	6.6	4.1	0.1	--	--	15	200	0.26	72	0.72	200	--	--	--	--	27			
Aroclor 1221	11104-28-2	0.72	--	0.17	--	0.1	--	--	9	40	0.033	0.16	0.13	0.63	--	--	--	--	0.72			
Aroclor 1232	11141-16-5	0.72	--	0.17	--	0.1	--	--	9	40	0.033	0.13	0.13	0.5	--	--	--	--	0.72			
Aroclor 1242	53469-21-9	0.97	--	0.17	--	0.1	--	--	9	40	0.033	4	0.13	16	--	--	--	--	0.97			
Aroclor 1248	12672-29-6	0.94	--	0.23	--	0.1	--	--	9	40	0.033	16	0.13	62	--	--	--	--	0.94			
Aroclor 1254	11097-69-1	0.97	15	0.24	1.2	0.1	--	--	4.4	40	0.033	67	0.13	260	--	--	--	--	0.97			
Aroclor 1260	11096-82-5	0.99	--	0.24	--	0.1	--	--	9	40	0.033	150	0.13	590	--	--	--	--	0.99			
Inorganics																						
Aluminum	7429-90-5	--	1100000	--	77000	1	--	(6)	190,000	190,000	--	--	--	--	--	--	--	--	1100000			
Antimony	7440-36-0	--	470	--	31	0.48	--	0.27	88	1,100	0.6	27	0.6	27	--	--	--	--	470			
Arsenic	7440-38-2	3	480	0.68	35	328	--	18	12	53	1	29	1	29	--	--	--	--	3			
Barium	7440-39-3	--	220000	--	15000	440	440	330	44,000	190,000	200	8,200	200	8,200	--	--	--	--	220000			
Beryllium	7440-41-7	6900	2300	1600	160	0.02 ⁽⁵⁾	--	21	440	5,600	0.4	320	0.4	320	--	--	--	--	2300			
Cadmium	7440-43-9	9300	980	2100	71	2.5	--	0.36	110	1,400	0.5	38	0.5	38	--	--	--	--	980			
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
Chromium [III]	16065-83-1	--	1800000	--	120000	0.02 (total)	0.0075 (total)	(6)	26	190,000	190,000	10	190,000	10	190,000	--	--	--	--	1800000		
Chromium [IV]	18540-29-9	6.3	3500	0.3	230	--	--	130	660	8,400	10	190	10	190	--	--	--	--	6.3			
Cobalt	7440-48-4	1900	350	420	23	100	200	13	66	840	1.1	50	3.1	140	--	--	--	--	350			
Copper	7440-50-8	--	47000	--	3100	15	--	28	8,100	100,000	100	43,000	100	43,000	--	--	--	--	47000			
Cyanide	57-12-5	--	12	--	2.7	--	> 0.005	--	4,400	56,000	20	200	20	200	--	--	--	--	12			
Iron	7439-89-6	--	820000	--	55000	3,260	12	(6)	150,000	190,000	--	--	--	--	--	--	--	--	820000			
Lead	7439-92-1	--	800	--	400	2	0.01	11	500	1,000	0.5	450	0.5	450	--	--	--	--	800			
Magnesium	7439-95-4	--	--	--	--	4,400	4,400	--	--	--	--	--	--	--	--	--	--	--				
Manganese	7439-96-5	--	26000	--	1800	330	330	220	10,000	130,000	30	2,000	30	2,000	--	--	--	--	26000			
Mercury	7439-97-6	--	40	--	9.4	0.058	0.058	--	35	450	0.2	10	0.2	10	--	--	--	--	40			
Nickel	7440-02-0	64000	22000	15000	1500	2	--	38	4,400	56,000	10	650	10	650	--	--	--	--	22000			
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
Selenium	7782-49-2	--	5800	--	390	1.8	1.8	0.52	1,100	14,000	5	26	5									

TABLE 4-1E
Subsurface Soil Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA				PADEP										Most Stringent EPA Industrial RSL (to be used for summary comparison)			
		Industrial Soil RSLs		Residential Soil RSLs		Residential Direct Contact MSCs (0-15 feet)	Non-Residential Direct Contact MSCs (2-15 feet)	MSCs - Soil to Groundwater Numeric Values				PA Defaults Residential Volatilization to Indoor Air Screen	USEPA-PA Defaults Non-Residential Volatilization to Indoor Air Screen	USEPA-PA Defaults Non-Residential Indoor Air PELs Volatilization to Indoor Air Screen					
		Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total	Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total			Used Aquifer; TDS ≤ 2500											
		100 x GW MSC	Generic Value	100 x GW MSC	Generic Value			Residential	Non-Residential	Residential	Non-Residential								
Volatile Organic Compounds																			
1,1,1-Trichloroethane	71-55-6	--	36000	--	8100	10,000	10,000	20	7.2	20	7.2	120	170	580	36.000				
1,1,2-Tetrachloroethane	79-34-5	2.7	23000	0.6	1600	7.7	44	0.084	0.026	0.43	0.13	1.2	2.0	880	2.7				
1,1,2-Trichloroethane	79-00-5	5	6.3	1.1	1.5	28	160	0.5	0.15	0.5	0.15	1.4	2.4	1,300	5				
1,1-Dichloroethane	75-34-3	16	230000	3.6	16000	280	1,600	3.1	0.75	16	3.9	1.6	2.7	1,200	16				
1,1-Dichloroethene	75-35-4	--	1000	--	230	3,800	10,000	0.7	0.19	0.7	0.19	5.5	7.6	790	1000				
1,2-Dichlorobenzene	95-50-1	--	9300	--	1800	3,800	10,000	60	59	60	59	150	150	150	9300				
1,2-Dichloroethane	107-06-2	2	140	0.46	31	17	98	0.5	0.1	0.5	0.1	0.49	0.83	1,700	2				
1,2-Dichloropropane	78-87-5	4.4	66	1	16	45	260	0.5	0.11	0.5	0.11	0.52	0.88	630	4.4				
1,3-Dichlorobenzene	541-73-1	--	--	--	--	660	10,000	60	61	60	61	--	--	--	--				
1,3-Dichloropropene (cis- and trans-)	542-75-6	8.2	310	1.8	72	110	640	0.66	0.12	2.6	0.46	0.20	0.34	550	8.2				
1,4-Dichlorobenzene	106-46-7	11	25000	2.6	3400	40	230	7.5	10	7.5	10	7.5	13	--	11				
1,4-Dioxane	123-91-1	24	4500	5.3	810	58	330	20	2.6	20	2.6	200	340	130000	24				
2-Butanone (Methyl ethyl ketone)	78-93-3	--	190000	--	27000	10,000	10,000	400	76	400	76	10,000	14,000	53,000	190000				
2-Chloroethyl vinyl ether	110-75-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
2-Hexanone	591-78-6	--	1300	--	200	96	460	1.1	0.27	4.4	1.1	--	--	--	1300				
4-Isopropyltoluene (Cymene)	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
4-Methyl-2-pentanone (MIBK)	108-10-1	--	56000	--	5300	10,000	10,000	290	45	820	130	84	120	3,000	56000				
Acetone	67-64-1	--	670000	--	61000	10,000	10,000	3,300	370	9,200	1,000	110,000	110,000	110,000	670000				
Acrolein	107-02-8	--	0.6	--	0.14	0.38	1.8	0.0042	0.00047	0.018	0.002	0.042	0.059	500	0.6				
Acrylonitrile	107-13-1	1.1	67	0.25	16	6.6	38	0.072	0.01	0.37	0.051	1.1	1.8	10000	1.1				
Benzene	71-43-2	5.1	420	1.2	82	57	330	0.5	0.13	0.5	0.13	0.37	0.63	380	5.1				
Bromodichloromethane	75-27-4	1.3	23000	0.29	1600	12	69	8	2.7	8	2.7	0.51	0.85	1,600	1.3				
Bromoform	75-25-2	86	23000	19	1600	410	2,300	8	3.5	8	3.5	94	160	1,300	86				
Bromomethane (Methyl bromide)	74-83-9	--	30	--	6.8	96	460	1	0.54	1	0.54	0.95	1.3	9,600	30				
Carbon disulfide	75-15-0	--	3500	--	770	10,000	10,000	150	130	620	530	47	66	1,900	3500				
Carbon tetrachloride	56-23-5	2.9	570	0.65	100	30	170	0.5	0.26	0.5	0.26	0.074	0.12	440	2.9				
Chlorobenzene	108-90-7	--	1300	--	280	960	4,600	10	6.1	10	6.1	9.0	13	300	1300				
Chloroethane	75-00-3	--	57000	--	14000	6,200	10,000	23	5	90	19	1.1	1.8	1,300	57000				
Chloroform	67-66-3	1.4	1000	0.32	200	19	110	8	2	8	2	0.053	0.074	2,100	1.4				
Chloromethane (Methyl chloride)	74-87-3	--	460	--	110	250	1,400	--	--	--	--	0.38	0.64	890	460				
cis-1,2-Dichloroethene	156-59-2	--	2300	--	160	2,200	10,000	7	1.6	7	1.6	5.4	7.6	840	2300				
Dibromochloromethane	124-48-1	3.3	23000	0.75	1600	17	95	8	2.5	8	2.5	1.3	2.2	1,300	3.3				
Dichlorodifluoromethane (Freon 12)	75-71-8	--	370	--	87	3,900	10,000	100	100	100	100	1.9	2.6	480	370				
Ethylbenzene	100-41-4	25	20000	5.8	3400	10,000	10,000	70	46	70	46	5.7	9.5	110	25				
Formaldehyde	50-00-0	73	3300	17	760	34	200	100	12	100	12	420	710	6,600	73				
Isopropyl benzene (Cumene)	98-82-8	--	9900	--	1900	7,700	10,000	84	600	350	2,500	--	--	--	9900				
Methylene chloride (Dichloromethane)	75-09-2	1000	3200	57	350	950	5,400	0.5	0.076	0.5	0.076	8.1	14	3,100	1000				
Styrene	100-42-5	--	35000	--	6000	10,000	10,000	10	24	10	24	720	720	720	35000				
Tetrachloroethene (PCE)	127-18-4	100	390	24	81	340	4,400	0.5	0.43	0.5	0.43	5.9	10	140	100				
Toluene	108-88-3	--	47000	--	4900	10,000	10,000	100	44	100	44	76	110	240	47000				
trans-1,2-Dichloroethene	156-60-5	--	23000	--	1600	1,100	5,500	10	2.3	10	2.3	4.6	6.4	1,500	23000				
Trichloroethene (TCE)	79-01-6	6	19	0.94	4.1	260	1,500	0.5	0.17	0.5	0.1								

TABLE 4-1E
Subsurface Soil Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA				PADEP										Most Stringent EPA Industrial RSL (to be used for summary comparison)		
		Industrial Soil RSLs		Residential Soil RSLs		Residential Direct Contact MSCs (0-15 feet)	Non-Residential Direct Contact MSCs (2-15 feet)	MSCs - Soil to Groundwater Numeric Values				PA Defaults Residential Volatilization to Indoor Air Screen	USEPA-PA Defaults Non-Residential Volatilization to Indoor Air Screen	USEPA-PA Defaults Non-Residential Indoor Air PELs Volatilization to Indoor Air Screen				
		Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total	Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total			Used Aquifer; TDS ≤ 2500		Residential								
		100 x GW MSC	Generic Value	100 x GW MSC	Generic Value			100 x GW MSC	Generic Value	PA Defaults Residential Volatilization to Indoor Air Screen	USEPA-PA Defaults Non-Residential Volatilization to Indoor Air Screen	USEPA-PA Defaults Non-Residential Indoor Air PELs Volatilization to Indoor Air Screen	PA Defaults Residential Volatilization to Indoor Air Screen	USEPA-PA Defaults Non-Residential Volatilization to Indoor Air Screen	PA Defaults Residential Volatilization to Indoor Air Screen			
2-Nitrophenol	88-75-5	--	--	--	--	1,800	190,000	29	5.9	82	17	--	--	--	--	--		
3,3'-Dichlorobenzidine	91-94-1	5.1	--	1.2	--	40	190,000	0.15	8.3	0.58	32	--	--	--	--	5.1		
3-Nitroaniline	99-09-2	--	--	--	--	66	190,000	1.1	0.17	3.1	0.48	--	--	--	--	--		
4,6-Dinitro-2-methylphenol	534-52-1	--	66	--	5.1	22	190,000	0.37	0.28	1	0.75	--	--	--	--	66		
4-Bromophenyl phenyl ether	101-55-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
4-Chloro-3-methylphenol	59-50-7	--	82000	--	6300	1,100	190,000	18	37	51	110	--	--	--	--	82000		
4-Chloroaniline	106-47-8	11	3300	2.7	250	90	190,000	0.33	0.42	1.3	1.6	--	--	--	--	11		
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
4-Methylphenol (p-Cresol)	106-44-5	--	82000	--	6300	1,100	190,000	18	4.2	51	12	--	--	--	--	82000		
4-Nitroaniline	100-01-6	110	3300	27	250	880	190,000	3.3	0.49	13	1.9	--	--	--	--	110		
4-Nitrophenol	100-02-7	--	--	--	--	1,800	190,000	6	4.1	6	4.1	--	--	--	--	--		
Acenaphthene	83-32-9	--	45000	--	3600	13,000	190,000	220	2,700	380	4,700	--	--	--	--	45000		
Acenaphthylene	208-96-8	--	--	--	--	13,000	190,000	220	2,500	610	6,900	--	--	--	--	--		
Anthracene	120-12-7	--	230000	--	18000	66,000	190,000	6.6	350	6.6	350	--	--	--	--	230000		
Benzo(a)anthracene	56-55-3	2.9	--	0.16	--	5.7	190,000	0.029	25	0.36	320	--	--	--	--	2.9		
Benzo(a)pyrene	50-32-8	0.29	--	0.016	--	0.57	190,000	0.02	46	0.02	46	--	--	--	--	0.29		
Benzo(b)fluoranthene	205-99-2	2.9	--	0.16	--	5.7	190,000	0.029	40	0.12	170	--	--	--	--	2.9		
Benzo(g,h,i)perylene	191-24-2	--	--	--	--	13,000	190,000	0.026	180	0.026	180	--	--	--	--	--		
Benzo(k)fluoranthene	207-08-9	29	--	1.6	--	57	190,000	0.055	610	0.055	610	--	--	--	--	29		
Bis(2-chloroethoxy)methane	111-91-1	--	2500	--	190	660	10,000	11	2.9	31	8.2	--	--	--	--	2500		
Bis(2-chloroethyl)ether	111-44-4	1	--	0.23	--	1.3	7.7	0.015	0.0045	0.076	0.023	4.2	7.1	3,100	--	1		
Bis(2-chloroisopropyl)ether	108-60-1	22	47000	4.9	3100	44	250	30	8	30	8	16	28	450	--	22		
Bis(2-ethylhexyl)phthalate	117-81-7	160	16000	39	1300	1,300	10,000	0.6	130	0.6	130	--	--	--	--	160		
Butyl benzyl phthalate	85-68-7	1200	160000	290	13000	9,400	10000	35	3,000	140	10,000	--	--	--	--	1200		
Carbazole	86-74-8	--	--	--	--	900	190,000	3.3	21	13	83	--	--	--	--	--		
Chrysene	218-01-9	290	--	16	--	570	190,000	0.19	230	0.19	230	--	--	--	--	290		
Dibenzo(a,h)anthracene	53-70-3	0.29	--	0.016	--	0.57	190,000	0.0029	13	0.036	160	--	--	--	--	0.29		
Dibenzofuran	132-64-9	--	1000	--	73	220	190,000	3.7	95	10	260	--	--	--	--	1000		
Diethylphthalate	84-66-2	--	660000	--	51000	10,000	10,000	2,900	910	8,200	2,600	--	--	--	--	660000		
Dimethylphthalate	131-11-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Di-n-butylphthalate	84-74-2	--	82000	--	6300	10,000	10,000	370	1,500	1,000	4,100	--	--	--	--	82000		
Di-n-octyl phthalate	117-84-0	--	8200	--	630	8,800	10,000	150	10,000	300	10,000	--	--	--	--	8200		
Fluoranthene	206-44-0	--	30000	--	2400	8,800	190,000	26	3,200	26	3,200	--	--	--	--	30000		
Fluorene	86-73-7	--	30000	--	2400	8,800	190,000	150	3,000	190	3,800	--	--	--	--	30000		
Hexachlorobenzene	118-74-1	0.96	930	0.21	63	11	190,000	0.1	0.96	0.1	0.96	--	--	--	--	0.96		
Hexachlorobutadiene	87-68-3	5.3	1200	1.2	78	220	10,000	0.85	10	3.3	39	--	--	--	--	5.3		
Hexachlorocyclopentadiene	77-47-4	--	7.5	--	1.8	1,300	10,000	5	91	5	91	--	--	--	--	7.5		
Hexachloroethane	67-72-1	8	460	1.8	45	110	640	0.1	0.56	0.1	0.56	--	--	--	--	8		
Indeno(1,2,3-cd)pyrene	193-39-5	2.9	--	0.16	--	5.7	190,000	0.029	2,200	0.36	28,000	--	--	--	--	2.9		
Isophorone	78-59-1	2400	160000	570	13000	10,000	10,000	10	1.9	10	1.9	--	--	--	--	2400		
Naphthalene	91-20-3	17	590	3.8	130	4,400	190,000	10	25	10	25	64	--	--	--	17		
Nitrobenzene	98-95-3	22	1300	5.1	130	440	10,000	7.3	3.2	20	8.7	130	190	870	--	22		
n-Nitrosodi-n-propylamine	621-64-7	0.33	--	0.078	--	2.6	10000	0.0094	0.0013	0.037	0.0051	--	--	--	--	0.33		
n-Nitrosodiphenylamine	86-30-6	470	--	110	--	3,700	190,000	13	20	53	83	--	--	--	--	470		
Pentachlorophenol	87-86-5	4																

TABLE 4-1E
Subsurface Soil Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA				PADEP										Most Stringent EPA Industrial RSL (to be used for summary comparison)		
		Industrial Soil RSLs		Residential Soil RSLs		Residential Direct Contact MSCs (0-15 feet)	Non-Residential Direct Contact MSCs (2-15 feet)	MSCs - Soil to Groundwater Numeric Values				PA Defaults Residential Volatilization to Indoor Air Screen	USEPA-PA Defaults Non-Residential Volatilization to Indoor Air Screen	USEPA-PA Defaults Non-Residential Indoor Air PELs Volatilization to Indoor Air Screen				
		Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total	Carcinogenic Target Risk-Total	Noncarcinogenic Hazard Index- Total			Used Aquifer; TDS ≤ 2500		Residential	Non-Residential							
Heptachlor	76-44-8	0.63	580	0.13	39	4	190000	0.04	0.68	0.04	0.68	--	--	--	--	0.63		
Heptachlor epoxide	1024-57-3	0.33	15	0.07	1	2	190000	0.02	1.1	0.02	1.1	--	--	--	--	0.33		
Methoxychlor	72-43-5	--	4100	--	320	1,100	190,000	4	630	4	630	--	--	--	--	4100		
Toxaphene	8001-35-2	2.1	--	0.49	--	16	190000	0.3	1.2	0.3	1.2	--	--	--	--	2.1		
Herbicides																		
2,4,5-T	93-76-5	--	8200	--	630	2,200	190,000	7	1.5	7	1.5	--	--	--	--	8200		
2,4,5-TP (Silvex)	93-72-1	--	6600	--	510	1,800	190,000	5	22	5	22	--	--	--	--	6600		
2,4-D	94-75-7	--	9600	--	700	2,200	190,000	7	1.8	7	1.8	--	--	--	--	9600		
2,4-DB	94-82-6	--	6600	--	510	--	--	--	--	--	--	--	--	--	--	6600		
Dicamba	1918-00-9	--	25000	--	1900	6,600	190,000	400	45	400	45	--	--	--	--	25000		
Dichlorprop	120-36-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MCPP	94-74-6	--	410	--	32	110	190,000	3	1.2	3	1.2	--	--	--	--	410		
MCPP	93-65-2	--	820	--	63	--	--	--	--	--	--	--	--	--	--	820		
PCBs																		
Aroclor 1016	12674-11-2	27	51	6.6	4.1	15	10000	0.26	72	0.72	200	--	--	--	--	27		
Aroclor 1221	11104-28-2	0.72	--	0.17	--	9	10000	0.033	0.16	0.13	0.63	--	--	--	--	0.72		
Aroclor 1232	11141-16-5	0.72	--	0.17	--	9	10000	0.033	0.13	0.13	0.5	--	--	--	--	0.72		
Aroclor 1242	53469-21-9	0.97	--	0.17	--	9	10000	0.033	4	0.13	16	--	--	--	--	0.97		
Aroclor 1248	12672-29-6	0.94	--	0.23	--	9	10000	0.033	16	0.13	62	--	--	--	--	0.94		
Aroclor 1254	11097-69-1	0.97	15	0.24	1.2	4.4	10000	0.033	67	0.13	260	--	--	--	--	0.97		
Aroclor 1260	11096-82-5	0.99	--	0.24	--	9	190000	0.033	150	0.13	590	--	--	--	--	0.99		
Inorganics																		
Aluminum	7429-90-5	--	1100000	--	77000	190,000	190,000	--	--	--	--	--	--	--	--	1100000		
Antimony	7440-36-0	--	470	--	31	88	190,000	0.6	27	0.6	27	--	--	--	--	470		
Arsenic	7440-38-2	3	480	0.68	35	12	190000	1	29	1	29	--	--	--	--	3		
Barium	7440-39-3	--	220000	--	15000	44,000	190,000	200	8,200	200	8,200	--	--	--	--	220000		
Beryllium	7440-41-7	6900	2300	1600	160	440	190,000	0.4	320	0.4	320	--	--	--	--	2300		
Cadmium	7440-43-9	9300	980	2100	71	110	190,000	0.5	38	0.5	38	--	--	--	--	980		
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Chromium [III]	16065-83-1	--	1800000	--	120000	190,000	190,000	10	190,000	10	190,000	--	--	--	--	1800000		
Chromium [IV]	18540-29-9	6.3	3500	0.3	230	660	20,000	10	190	10	190	--	--	--	--	6.3		
Cobalt	7440-48-4	1900	350	420	23	66	190000	1.1	50	3.1	140	--	--	--	--	350		
Copper	7440-50-8	--	47000	--	3100	8,100	190,000	100	43,000	100	43,000	--	--	--	--	47000		
Cyanide	57-12-5	--	12	--	2.7	4,400	190,000	20	200	20	200	--	--	--	--	12		
Iron	7439-89-6	--	820000	--	55000	150,000	190,000	--	--	--	--	--	--	--	--	820000		
Lead	7439-92-1	--	800	--	400	500	190,000	0.5	450	0.5	450	--	--	--	--	800		
Magnesium	7439-95-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Manganese	7439-96-5	--	26000	--	1800	10,000	190,000	30	2,000	30	2,000	--	--	--	--	26000		
Mercury	7439-97-6	--	40	--	9.4	35	190000	0.2	10	0.2	10	--	--	--	--	40		
Nickel	7440-02-0	64000	22000	15000	1500	4,400	190,000	10	650	10	650	--	--	--	--	22000		
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Selenium	7782-49-2	--	5800	--	390	1,100	190,000	5	26	5	26	--	--	--	--	5800		
Silver	7440-22-4	--	5800	--	390	1,100	190,000	10	84	10	84	--	--	--	--	5800		
Sodium	7440-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Thallium	7440-28-0	--	12	--	0.78	15	190000	0.2	14	0.2	14	--	--	--	--	12		
Vanadium	7440-62-2	--	5800	--	390	1,500	190,000	26	26,000	72	72,000	--	--	--	--	5800		
Zinc	7440-66-6	--	350000	--	23000	66,000	190,000	200	12,000	200	12,000	--	--	--	--	350000		

Notes:

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TABLE 4-1F
Groundwater Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA			PADEP			Most Stringent EPA RSL (to be used for summary comparison)
		Drinking Water Maximum Contaminant Levels (MCLs)	RSL Tap Water Carcinogenic Target Risk = 1E-06	RSL Tap Water Non-Cancer Hazard Index (HI) = 1	Maximum Contaminant Levels	Used Aquifer TDS <= 2500, Residential MSC	Used Aquifer TDS <= 2500, Non-Residential MSC	
Volatile Organic Compounds								
1,1,1-Trichloroethane	71-55-6	200	--	8000	200	200	200	8000
1,1,2,2-Tetrachloroethane	79-34-5	--	0.076	360	--	0.84	4.3	0.076
1,1,2-Trichloroethane	79-00-5	5	0.28	0.41	5	5	5	0.28
1,1-Dichloroethane	75-34-3	--	2.7	3800	--	31	160	2.7
1,1-Dichloroethene	75-35-4	7	--	280	7	7	7	280
1,2-Dichlorobenzene	95-50-1	600	--	300	600	600	600	300
1,2-Dichloroethane	107-06-2	5	0.17	13	5	5	5	0.17
1,2-Dichloropropane	78-87-5	5	0.44	8.3	5	5	5	0.44
1,3-Dichlorobenzene	541-73-1	--	--	--	--	600	600	--
1,3-Dichloropropene (cis- and trans-)	542-75-6	--	0.47	39	--	6.6	26	0.47
1,4-Dichlorobenzene	106-46-7	75	0.48	570	75	75	75	0.48
1,4-Dioxane	123-91-1	--	0.46	57	--	6.4	32	0.46
2-Butanone (Methyl ethyl ketone)	78-93-3	--	--	5600	--	4,000	4,000	5600
2-Chloroethyl vinyl ether	110-75-8	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	38	--	11	44	38
4-Isopropyltoluene (Cymene)	99-87-6	--	--	--	--	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone)	108-10-1	--	--	1200	--	2,900	8,200	1200
Acetone	67-64-1	--	--	14000	--	33,000	92,000	14000
Acrolein	107-02-8	--	--	0.042	--	0.042	0.18	0.042
Acrylonitrile	107-13-1	--	0.052	4.1	--	0.72	3.7	0.052
Benzene	71-43-2	5	0.45	33	5	5	5	0.45
Bromodichloromethane	75-27-4	80 ⁽¹⁾	0.13	380	80	80	80	0.13
Bromoform	75-25-2	80 ⁽¹⁾	3.3	380	80	80	80	3.3
Bromomethane (Methyl bromide)	74-83-9	--	--	7.5	--	10	10	7.5
Carbon Disulfide	75-15-0	--	--	810	--	1,500	6,200	810
Carbon Tetrachloride	56-23-5	5	0.45	49	5	5	5	0.45
Chlorobenzene	108-90-7	100	--	78	100	100	100	78
Chloroethane	75-00-3	--	--	21000	--	230	900	21000
Chloroform	67-66-3	80 ⁽¹⁾	0.22	97	80	80	80	0.22
Chloromethane (Methyl chloride)	74-87-3	--	--	190	--	30	30	190
cis-1,2-Dichloroethene	156-59-2	70	--	36	70	70	70	36
Dibromochloromethane	124-48-1	80 ⁽¹⁾	0.17	380	80	80	80	0.17
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	200	--	1,000	1,000	200
Ethylbenzene	100-41-4	700	1.5	810	700	700	700	1.5
Formaldehyde	50-00-0	--	0.43	20	--	1,000	1,000	0.43
Isopropyl benzene (Cumene)	98-82-8	--	--	450	--	840	3,500	450
Methylene chloride (Dichloromethane)	75-09-2	5	11.4	110	5	5	5	11.4
m-Xylene	108-38-3	--	--	190	--	--	--	190
o-Xylene	95-47-6	--	--	190	--	--	--	190
p-Xylene	106-42-3	--	--	190	--	--	--	190
Styrene	100-42-5	100	--	1200	100	100	100	1200
Tetrachloroethene (PCE)	127-18-4	5	11	41	5	5	5	11
Toluene	108-88-3	1000	--	1100	1,000	1,000	1,000	1100
Total Trihalomethanes ⁽¹⁾	NA	80 ⁽¹⁾	--	--	80	--	--	--
trans-1,2-Dichloroethene	156-60-5	100	--	360	100	100	100	360
Trichloroethene (TCE)	79-01-6	5	0.49	2.8	5	5	5	0.49
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	1100	--	2,000	2,000	1100
Vinyl chloride	75-01-4	2	0.019	44	2	2	2	0.019
Xylenes (total)	1330-20-7	10000	--	190	10,000	10,000	10,000	190

TABLE 4-1F
Groundwater Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA			PADEP			Most Stringent EPA RSL (to be used for summary comparison)
		Drinking Water Maximum Contaminant Levels (MCLs)	RSL Tap Water Carcinogenic Target Risk = 1E-06	RSL Tap Water Non-Cancer Hazard Index (HI) = 1	Maximum Contaminant Levels	Used Aquifer TDS <= 2500, Residential MSC	Used Aquifer TDS <= 2500, Non-Residential MSC	
Semi-Volatile Organic Compounds								
1,2,4-Trichlorobenzene	120-82-1	70	1.1	4	70	70	70	1.1
1,2-Dichlorobenzene	95-50-1	600	--	300	600	600	600	300
1,3-Dichlorobenzene	541-73-1	--	--	--	--	600	600	--
1,4-Dichlorobenzene	106-46-7	75	0.48	570	75	75	75	0.48
2,4,5-Trichlorophenol	95-95-4	--	--	1200	--	3,700	10,000	1200
2,4,6-Trichlorophenol	88-06-2	--	4	12	--	37	100	4
2,4-Dichlorophenol	120-83-2	--	--	46	--	20	20	46
2,4-Dimethylphenol	105-67-9	--	--	360	--	730	2,000	360
2,4-Dinitrotoluene	51-28-5	--	0.24	38	--	2.1	8.4	0.24
2,6-Dinitrotoluene	121-14-2	--	0.048	5.7	--	37	100	0.048
2,4-Dinitrophenol	606-20-2	--	--	39	--	73	200	39
2-Chloronaphthalene	91-58-7	--	--	750	--	2,900	8,200	750
2-Chlorophenol	95-57-8	--	--	91	--	40	40	91
2-Methylnaphthalene	91-57-6	--	--	36	--	150	410	36
2-Methylphenol (o-Cresol)	95-48-7	--	--	930	--	1,800	5,100	930
2-Nitroaniline	88-74-4	--	--	190	--	110	310	190
2-Nitrophenol	88-75-5	--	--	--	--	290	820	--
3,3'-Dichlorobenzidine	91-94-1		0.12	--	--	1.5	5.8	0.12
3-Nitroaniline	99-09-2	--	--	--	--	11	31	--
4,6-Dinitro-2-methylphenol	534-52-1	--	--	1.5	--	3.7	10	1.5
4-Bromophenyl phenyl ether	101-55-3	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	--	--	1400	--	180	510	1400
4-Chloroaniline	106-47-8	--	0.36	76	--	3.3	13	0.36
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	--	--
4-Methylphenol (p-Cresol)	106-44-5	--	--	1900	--	180	510	1900
4-Nitroaniline	100-01-6	--	3.8	78	--	33	130	3.8
4-Nitrophenol	100-02-7	--	--	--	--	60	60	--
Acenaphthene	83-32-9	--	--	530	--	2,200	3,800	530
Acenaphthylene	208-96-8	--	--	--	--	2,200	6,100	--
Anthracene	120-12-7	--	--	1800	--	66	66	1800
Benz(a)anthracene	56-55-3	--	0.012	--	--	0.29	3.6	0.012
Benz(a)pyrene	50-32-8	0.2	0.0034	--	0.2	0.2	0.2	0.0034
Benz(b)fluoranthene	205-99-2	--	0.034	--	--	0.29	1.2	0.034
Benz(g,h,i)perylene	191-24-2	--	--	--	--	0.26	0.26	--
Benz(k)fluoranthene	207-08-9	--	0.34	--	--	0.55	0.55	0.34
Bis(2-chloroethoxy) methane	111-91-1	--	--	59	--	110	310	59
Bis(2-chloroethyl)ether	111-44-4	--	0.014	--	--	0.15	0.76	0.014
Bis(2-chloroisopropyl)ether	108-60-1	--	0.36	710	--	300	300	0.36
Bis(2-ethylhexyl)phthalate	117-81-7	6	5.6	400	6	6	6	5.6
Butylbenzylphthalate	85-68-7	--	16	1700	--	350	1,400	16
Carbazole	86-74-8	--	--	--	--	33	130	--
Chrysene	218-01-9	--	3.4	--	--	1.9	1.9	3.4
Dibenzo(a,h)anthracene	53-70-3	--	0.0034	--	--	0.029	0.36	0.0034
Dibenzo-furan	132-64-9	--	--	7.9	--	37	100	7.9
Diethylphthalate	84-66-2	--	--	15000	--	29,000	82,000	15000
Dimethylphthalate	131-11-3	--	--	--	--	--	--	--
Di-n-butylphthalate	84-74-2	--	--	900	--	3,700	10,000	900
Di-n-octyl phthalate	117-84-0	--	--	200	--	1,500	3,000	200
Fluoranthene	206-44-0	--	--	800	--	260	260	800

TABLE 4-1F
Groundwater Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA			PADEP			Most Stringent EPA RSL (to be used for summary comparison)
		Drinking Water Maximum Contaminant Levels (MCLs)	RSL Tap Water Carcinogenic Target Risk = 1E-06	RSL Tap Water Non-Cancer Hazard Index (HI) = 1	Maximum Contaminant Levels	Used Aquifer TDS <= 2500, Residential MSC	Used Aquifer TDS <= 2500, Non-Residential MSC	
Fluorene	86-73-7	--	--	290	--	1,500	1,900	290
Hexachlorobenzene	118-74-1	1	0.0098	16	1	1	1	0.0098
Hexachlorobutadiene	87-68-3	--	0.14	6.5	--	8.5	33	0.14
Hexachlorocyclopentadiene	77-47-4	50	--	0.41	50	50	50	0.41
Hexachloroethane	67-72-1	--	0.33	6.2	--	1	1	0.33
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.034	--	--	0.29	3.6	0.034
Isophorone	78-59-1	--	78	3800	--	100	100	78
Naphthalene	91-20-3	--	0.17	6.1	--	100	100	0.17
Nitrobenzene	98-95-3	--	0.14	13	--	73	200	0.14
n-Nitrosodi-n-propylamine	621-64-7	--	0.011	--	--	0.094	0.37	0.011
n-Nitrosodiphenylamine	86-30-6	--	12	--	--	130	530	12
Pentachlorophenol	87-86-5	1	0.04	23	1	1	1	0.04
Phenanthrene	85-01-8	--	--	--	--	1,100	1,100	--
Phenol	108-95-2	--	--	5800	--	2,000	2,000	5800
Pyrene	129-00-0	--	--	120	--	130	130	120
Pesticides								
4,4'-DDD	72-54-8	--	0.031	--	--	2.8	11	0.031
4,4'-DDE	72-55-9	--	0.046	--	--	1.9	7.6	0.046
4,4'-DDT	50-29-3	--	0.23	10	--	1.9	5.5	0.23
Aldrin	309-00-2	--	0.00092	0.6	--	0.039	0.15	0.00092
alpha-BHC	319-84-6	--	0.0071	97	--	0.1	0.41	0.0071
beta-BHC	319-85-7	--	0.025	--	--	0.37	1.4	0.025
Chlordane	12789-03-6	2	0.045	1.3	2	2	2	0.045
delta-BHC	319-86-8	--	0.025	--	--	--	--	0.025
Dieldrin	60-57-1	--	0.0017	0.38	--	0.041	0.16	0.0017
Endosulfan I ⁽⁵⁾	959-98-8	--	--	100	--	220	500	100
Endosulfan II ⁽⁵⁾	33213-65-9	--	--	100	--	220	450	100
Endosulfan sulfate	1031-07-8	--	--	--	--	120	120	--
Endrin	72-20-8	2	--	2.3	2	2	2	2.3
Endrin aldehyde	7421-93-4	--	--	--	--	--	--	--
Endrin ketone	53494-70-5	--	--	--	--	--	--	--
gamma-BHC (Lindane)	58-89-9	0.2	0.041	3.6	0.2	0.2	0.2	0.041
Heptachlor	76-44-8	0.4	0.0014	1.3	0.4	0.4	0.4	0.0014
Heptachlor epoxide	1024-57-3	0.2	0.0014	0.12	0.2	0.2	0.2	0.0014
Methoxychlor	72-43-5	40	--	37	40	40	40	37
Toxaphene	8001-35-2	3	0.015	--	3	3	3	0.015
Herbicides								
2,4,5-T	93-76-5	--	--	160	--	70	70	160
2,4,5-TP (Silvex)	93-72-1	50	--	110	50	50	50	110
2,4-D	94-75-7	70	--	170	70	70	70	170
2,4-DB	94-82-6	--	--	120	--	--	--	120
Dicamba	1918-00-9	--	--	570	--	4,000	4,000	570
Dichlorprop	120-36-5	--	--	--	--	--	--	--
MCPA	94-74-6	--	--	7.5	--	30	30	7.5
MCPP	93-65-2	--	--	16	--	--	--	16
PCBs								
Aroclor 1016	12674-11-2	0.5 ⁽⁶⁾	0.22	1.4	0.5	2.6	7.2	0.22
Aroclor 1221	11104-28-2	0.5 ⁽⁶⁾	0.0046	--	0.5	0.33	1.3	0.0046
Aroclor 1232	11141-16-5	0.5 ⁽⁶⁾	0.0046	--	0.5	0.33	1.3	0.0046
Aroclor 1242	53469-21-9	0.5 ⁽⁶⁾	0.0078	--	0.5	0.33	1.3	0.0078

TABLE 4-1F
Groundwater Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA			PADEP			Most Stringent EPA RSL (to be used for summary comparison)
		Drinking Water Maximum Contaminant Levels (MCLs)	RSL Tap Water Carcinogenic Target Risk = 1E-06	RSL Tap Water Non-Cancer Hazard Index (HI) = 1	Maximum Contaminant Levels	Used Aquifer TDS <= 2500, Residential MSC	Used Aquifer TDS <= 2500, Non-Residential MSC	
Aroclor 1248	12672-29-6	0.5 ⁽⁶⁾	0.0078	--	0.5	0.33	1.3	0.0078
Aroclor 1254	11097-69-1	0.5 ⁽⁶⁾	0.0078	0.4	0.5	0.33	1.3	0.0078
Aroclor 1260	11096-82-5	0.5 ⁽⁶⁾	0.0078	--	0.5	0.33	1.3	0.0078
Inorganics								
Aluminum	7429-90-5	50 to 200 ⁽³⁾	--	20000	200 ⁽³⁾	--	--	20000
Antimony	7440-36-0	6	--	7.8	6	6	6	7.8
Arsenic	7440-38-2	10	0.052	6	10	10	10	0.052
Barium	7440-39-3	2000	--	3800	2,000	2,000	2,000	3800
Beryllium	7440-41-7	4	--	25	4	4	4	25
Cadmium	7440-43-9	5	--	9.2	5	5	5	9.2
Calcium	7440-70-2	--	--	--	--	--	--	--
Chromium [III]	16065-83-1	100 (total)	--	22000	100 (total)	100 (total)	100 (total)	22000
Chromium [IV]	18540-29-9	100 (total)	0.035	44	100 (total)	100 (total)	100 (total)	0.035
Cobalt	7440-48-4	--	--	6	--	11	31	6
Copper	7440-50-8	1300	--	800	1,000 ⁽²⁾	1,000	1,000	800
Cyanide	57-12-5	200	--	1.5	200	200	200	1.5
Iron	7439-89-6	300 ⁽³⁾	--	14000	300 ⁽³⁾	--	--	14000
Lead	7439-92-1	15	--	15	5 ⁽²⁾	5	5	15
Magnesium	7439-95-4	--	--	--	--	--	--	--
Manganese	7439-96-5	50 ⁽³⁾	--	430	50 ⁽³⁾	300	300	430
Mercury	7439-97-6	2	--	0.63	2	2	2	0.63
Nickel	7440-02-0	--	--	390	--	100	100	390
Potassium	7440-09-7	--	--	--	--	--	--	--
Selenium	7782-49-2	50	--	100	50	50	50	100
Silver	7440-22-4	100 ⁽³⁾	--	94	--	100	100	94
Sodium	7440-23-5	20,000 ⁽⁴⁾	--	--	--	--	--	--
Thallium	7440-28-0	2	--	0.2	2	2	2	0.2
Vanadium	7440-62-2	--	--	86	--	260	720	86
Zinc	7440-66-6	5,000 ⁽³⁾	--	6000	--	2,000	2,000	6000
Water Quality Parameters								
Alkalinity (mg/l)	471-34-1	--	--	--	--	--	--	--
Ammonia (mg/l)	7664-41-7	--	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	71-52-3	--	--	--	--	--	--	--
Carbonaceous Biochemical Oxygen Demand (mg/l)	NA	--	--	--	--	--	--	--
Carbonate Alkalinity as CaCO ₃ (mg/l)	3812-32-6	--	--	--	--	--	--	--
Chemical Oxygen Demand (mg/l)	NA	--	--	--	--	--	--	--
Chloride (mg/l)	16887-00-6	250 ⁽³⁾	--	--	250 ⁽³⁾	--	--	--
Dissolved Organic Carbon (mg/l)	7440-44-0	--	--	--	--	--	--	--
Ethane	74-84-0	--	--	--	--	--	--	--
Ethylene	74-85-1	--	--	--	--	--	--	--
Ferric Iron (mg/l)	20074-52-6	--	--	--	--	--	--	--
Ferrous Iron (mg/l)	15438-31-0	--	--	--	--	--	--	--
Iron	7439-89-6	300 ⁽³⁾	--	14000	300 ⁽³⁾	--	--	14000
Methane	74-82-8	--	--	--	--	--	--	--
Nitrate as N (mg/l)	14797-55-8	10	--	32	--	10	10	32
Nitrite as N (mg/l)	14797-65-0	1	--	2	--	1	1	2
Orthophosphate as P (mg/l)	14265-44-2	--	--	--	--	--	--	--
Phosphorus as P (mg/l)	7723-14-0	--	--	--	--	--	--	--
Sulfate (mg/l)	14808-79-8	250 ⁽³⁾	--	--	250 ⁽³⁾	--	--	--

TABLE 4-1F
Groundwater Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA			PADEP			Most Stringent EPA RSL (to be used for summary comparison)
		Drinking Water Maximum Contaminant Levels (MCLs)	RSL Tap Water Carcinogenic Target Risk = 1E-06	RSL Tap Water Non-Cancer Hazard Index (HI) = 1	Maximum Contaminant Levels	Used Aquifer TDS <= 2500, Residential MSC	Used Aquifer TDS <= 2500, Non-Residential MSC	
Total Dissolved Solids (mg/l)	NA	500 ⁽³⁾	--	--	--	--	--	--
Total Kjeldahl Nitrogen (mg/l)	7727-37-9	--	--	--	--	--	--	--
Total Organic Carbon (mg/l)	7440-44-0	--	--	--	--	--	--	--
Total Suspended Solids (mg/l)	NA	--	--	--	--	--	--	--

Notes:

-- Indicates no criteria for this constituent.

All concentrations are reported in micrograms per liter (ug/L) unless otherwise noted.

CAS - Chemical Abstracts Service

MCL - Maximum Contaminant Level

MSC - Medium Specific Concentration

OSWER - Office of Solid Waste and Emergency Response

PADEP - Pennsylvania Department of Environmental Protection

RSL - Regional Screening Level

TDS - Total Dissolved Solids (value provided in mg/L)

USEPA - United States Environmental Protection Agency

⁽¹⁾ Total Trihalomethanes PADEP MCL applies for disinfection byproducts including bromodichloromethane, bromoform, chloroform, and dibromochloromethane.

⁽²⁾ Criteria is only applicable to bottled, vended, retail and bulk water hauling systems

⁽³⁾ Criteria is a secondary MCL.

⁽⁴⁾ Criteria is a drinking water advisory health-based value for individuals on a restricted sodium diet.

⁽⁵⁾ Criteria is for "Endosulfan."

⁽⁶⁾ Criteria is for "Polychlorinated Biphenyls (low risk)."

Groundwater criteria from:

2004 Edition of the Drinking Water Standards and Health Advisories. USEPA 822-R-09-11. Office of Water. www.epa.gov/waterscience/criteria/drinking/dwstandards2009.pdf. Fall 2009.

Regional Screening Levels for Chemical Contaminants at Superfund Sites – June 2015 Edition. United States Environmental Protection Agency. http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm.

Maximum Contaminant Levels (MCLs); Maximum Residual Disinfectant Levels (MRDLs). PADEP Division of Drinking Water Management. April 2006.

Statewide Health Standards. Pennsylvania Department of Environmental Protection. January 8, 2011.

TABLE 4-1G
Surface Water and Pore Water Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA					PADEP			PRGs for Ecological Endpoints	Most Stringent EPA Value (to be used for summary comparison)				
		Region 3 BTAG Freshwater Screening Benchmarks	Recommended Water Quality Criteria		10 x RSL Tap Water Carcinogenic Target Risk = 1E-06	10 x RSL Tap Water Non-Cancer Hazard Index (HI) = 1	Fish and Aquatic Life Criteria		Human Health Criteria						
			Human Health for Consumption of Water Plus Organism	Human Health for Consumption of Organism Only			Criteria Continuous Concentration	Criteria Maximum Concentration							
Volatile Organic Compounds															
1,1,1-Trichloroethane	71-55-6	11	10000	100000	--	80000	610	3000	--	11	11				
1,1,2,2-Tetrachloroethane	79-34-5	610	0.1	1	0.76	3600	210	1000	0.17	610	0.1				
1,1,2-Trichloroethane	79-00-5	1200	0.45	12	2.8	4.1	680	3400	0.59	1200	0.45				
1,1-Dichloroethane	75-34-3	47	--	--	27	38000	--	--	--	47	27				
1,1-Dichloroethene	75-35-4	25	200	4000	--	2800	1500	7500	33	25	25				
1,2-Dichlorobenzene	95-50-1	0.7	700	1000	--	3000	160	820	2700	14	0.7				
1,2-Dichloroethane	107-06-2	100	0.29	13	1.7	130	3100	15000	0.38	910	0.29				
1,2-Dichloropropane	78-87-5	--	0.71	16	4.4	83	2200	11000	--	--	0.71				
1,3-Dichlorobenzene	541-73-1	150	5	10	--	--	69	350	2700	71	5				
1,3-Dichloropropene (cis- and trans-)	542-75-6	0.055	0.2	4	4.7	390	61	310	10	--	0.055				
1,4-Dichlorobenzene	106-46-7	26	200	200	4.8	5700	150	730	2700	15	4.8				
1,4-Dioxane	123-91-1	--	--	--	4.6	570	--	--	--	--	4.6				
2-Butanone (Methyl ethyl ketone)	78-93-3	14000	--	--	--	56000	32000	230000	21000	14	14000				
2-Chloroethylvinyl ether	110-75-8	--	--	--	--	--	3500	18000	--	--	--				
2-Hexanone	591-78-6	99	--	--	--	380	4300	21000	--	99	99				
4-Isopropyltoluene (Cymene)	99-87-6	85	--	--	--	--	--	--	--	--	85				
4-Methyl-2-pentanone (MIBK)	108-10-1	170	--	--	--	12000	5000	26000	--	170	170				
Acetone	67-64-1	1500	--	--	--	140000	86000	450000	3500	0.0015	1500				
Acrolein	107-02-8	--	3	400	--	0.42	1	5	190	--	0.42				
Acrylonitrile	107-13-1	--	0.049	6.5	0.52	41	130	650	0.051	--	0.049				
Benzene	71-43-2	370	0.45-1.6	8554	4.5	330	130	640	1.2	130	4.5				
Bromodichloromethane	75-27-4	--	0.72	14	1.3	3800	--	--	--	--	0.72				
Bromoform	75-25-2	320	5.2	50	33	3800	370	1800	4.3	--	5.2				
Bromomethane (Methyl bromide)	74-83-9	--	100	8000	--	75	110	550	47	--	75				
Carbon disulfide	75-15-0	0.92	--	--	--	8100	--	--	--	0.12	0.92				
Carbon tetrachloride	56-23-5	13.3	0.3	3	4.5	490	560	2800	0.23	9.8	0.3				
Chlorobenzene	108-90-7	1.3	90	600	--	780	240	1200	130	64	1.3				
Chloroethane	75-00-3	--	--	--	--	210000	--	--	--	--	210000				
Chloroform	67-66-3	1.8	50	1000	2.2	970	390	1900	5.7	28	1.8				
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	1900	5500	28000	--	--	1900				
cis-1,2-Dichloroethene	156-59-2	--	--	--	--	360	--	--	--	590 ⁽⁶⁾	360				
Dibromochloromethane	124-48-1	--	0.58	8.4	1.7	3800	--	--	0.4	--	0.58				
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	2000	--	--	--	--	2000				
Ethylbenzene	100-41-4	90	400	1000	15	8100	580	2900	530	7.3	15				
Formaldehyde	50-00-0	--	--	--	4.3	200	440	2200	700	--	4.3				
Isopropylbenzene (Cumene)	98-82-8	2.6	--	--	--	4500	--	--	--	--	2.6				
Methylene chloride (Dichloromethane)	75-09-2	98.1	8	510	114	1100	2400	12000	4.6	2200	8				
m-Xylene	108-38-3	1.8	--	--	--	1900	210 ⁽³⁾	1100 ⁽³⁾	70000 ⁽³⁾	13 ⁽³⁾	1.8				
o-Xylene	95-47-6	--	--	--	--	1900	210 ⁽³⁾	1100 ⁽³⁾	70000 ⁽³⁾	13 ⁽³⁾	1900				
p-Xylene	106-42-3	--	--	--	--	1900	210 ⁽³⁾	1100 ⁽³⁾	70000 ⁽³⁾	13 ⁽³⁾	1900				
Styrene	100-42-5	72	--	--	--	12000	--	--	--	--	72				
Tetrachloroethene (PCE)	127-18-4	111	10	40	110	410	140	700	0.69	98	10				
Toluene	108-88-3	2	300	2000	--	11000	330	1700	1300	9.8	2				
trans-1,2-Dichloroethene	156-60-5	970	2000	10000	--	3600	1400	6800	700	590 ⁽⁶⁾	970				
Trichloroethene (TCE)	79-01-6	21	0.5	4	4.9	28	450	2300	2.5	470	0.5				
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	11000	--	--	--	--	11000				
Vinyl chloride	75-01-4	930	0.018	0.68	0.19	440	--	--	0.025	782	0.018				
Xylenes (total)	1330-20-7	13	--	--	--	1900	210	1100	70000	13	13				

TABLE 4-1G
Surface Water and Pore Water Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA					PADEP			PRGs for Ecological Endpoints	Most Stringent EPA Value (to be used for summary comparison)				
		Region 3 BTAG Freshwater Screening Benchmarks	Recommended Water Quality Criteria		10 x RSL Tap Water Carcinogenic Target Risk = 1E-06	10 x RSL Tap Water Non-Cancer Hazard Index (HI) = 1	Fish and Aquatic Life Criteria		Human Health Criteria						
			Human Health for Consumption of Water Plus Organism	Human Health for Consumption of Organism Only			Criteria Continuous Concentration	Criteria Maximum Concentration							
Semi-Volatile Organic Compounds															
1,2,4-Trichlorobenzene	120-82-1	24	8	10	11	40	26	130	35	110	8				
1,2-Dichlorobenzene	95-50-1	0.7	700	1000	--	3000	160	820	420	14	0.7				
1,3-Dichlorobenzene	541-73-1	150	5	10	--	--	69	350	420	71	5				
1,4-Dichlorobenzene	106-46-7	26	200	200	4.8	5700	150	730	420	15	4.8				
2,4,5-Trichlorophenol	95-95-4	--	200	400	--	12000	--	--	--	--	200				
2,4,6-Trichlorophenol	88-06-2	4.9	1.4	3.2	40	120	91	460	1.4	--	1.4				
2,4-Dichlorophenol	120-83-2	11	10	60	--	460	340	1700	77	--	10				
2,4-Dimethylphenol	105-67-9	--	100	1000	--	3600	130	660	380	--	100				
2,4-Dinitrophenol	51-28-5	--	10	500	2.4	380	130	660	69	--	2.4				
2,4-Dinitrotoluene	121-14-2	44	0.0378	0.711	0.48	57	320	1600	0.05	--	0.0378				
2,6-Dinitrotoluene	606-20-2	81	--	--	--	390	200	990	0.05	--	81				
2-Chloronaphthalene	91-58-7	--	90	100	--	7500	--	--	1000	--	90				
2-Chlorophenol	95-57-8	24	20	300	--	910	110	560	81	--	20				
2-Methylnaphthalene	91-57-6	4.7	--	--	--	360	--	--	--	--	4.7				
2-Methylphenol (o-Cresol)	95-48-7	13	--	--	--	9300	--	--	--	13	13				
2-Nitroaniline	88-74-4	--	--	--	--	1900	--	--	--	--	1900				
2-Nitrophenol	88-75-5	1920	--	--	--	--	1600	8000	--	--	1920				
3,3'-Dichlorobenzidine	91-94-1	4.5	0.028	0.055	1.2	--	--	--	0.021	--	0.028				
3-Nitroaniline	99-09-2	--	--	--	--	--	--	--	--	--	--				
4,6-Dinitro-2-methylphenol	534-52-1	--	2	60	--	15	16	80	13	--	2				
4-Bromophenyl phenyl ether	101-55-3	1.5	--	--	--	--	54	270	--	--	1.5				
4-Chloro-3-methylphenol	59-50-7	--	500	3000	--	14000	30	160	--	--	500				
4-Chloroaniline	106-47-8	232	--	--	3.6	760	--	--	--	--	3.6				
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	--	--	--	--	--				
4-Methylphenol (p-Cresol)	106-44-5	543	--	--	--	19000	160	800	--	--	543				
4-Nitroaniline	100-01-6	--	--	--	38	780	--	--	--	--	38				
4-Nitrophenol	100-02-7	60	--	--	--	--	470	2300	--	300	60				
Acenaphthene	83-32-9	5.8	200	400	--	5300	17	83	670	23	5.8				
Acenaphthylene	208-96-8	--	--	--	--	--	--	--	--	--	--				
Anthracene	120-12-7	0.012	200	200	--	18000	--	--	8300	0.73	0.012				
Benzo(a)anthracene	56-55-3	0.018	0.011	0.013	0.12	--	0.1	0.5	0.0038	0.027	0.011				
Benzo(a)pyrene	50-32-8	0.015	0.00077	0.00084	0.034	--	--	--	0.0038	0.014	0.00077				
Benzo(b)fluoranthene	205-99-2	--	0.0037	0.0038	0.34	--	--	--	0.0038	--	0.0037				
Benzo(g,h,i)perylene	191-24-2	--	--	--	--	--	--	--	--	--	--				
Benzo(k)fluoranthene	207-08-9	--	0.011	0.012	3.4	--	--	--	0.0038	--	0.011				
Bis(2-chloroethoxy)methane	111-91-1	--	--	--	--	590	--	--	--	--	590				
Bis(2-chloroethyl)ether	111-44-4	--	0.024	1.5	0.14	--	6000	30000	0.03	--	0.024				
Bis(2-chloroisopropyl)ether	108-60-1	--	1400	65000	3.6	7100	--	--	1400	--	3.6				
Bis(2-ethylhexyl) phthalate	117-81-7	16	0.028	0.029	56	4000	910	4500	1.2	0.12	0.028				
Butyl benzyl phthalate	85-68-7	19	800	3000	160	17000	35	140	150	19	19				
Carbazole	86-74-8	--	--	--	--	--	--	--	--	--	--				
Chrysene	218-01-9	--	0.022	0.022	34	--	--	--	0.0038	--	0.022				
Dibenzo(a,h)anthracene	53-70-3	--	0.000063	0.000063	0.034	--	--	--	0.0038	--	0.000063				
Dibenzofuran	132-64-9	3.7	--	--	--	79	--	--	--	3.7	3.7				
Diethylphthalate	84-66-2	210	4000	90000	--	150000	800	4000	17000	210	210				
Dimethylphthalate	131-11-3	--	50000	4000000	--	--	500	2500	270000	--	50000				
Di-n-butyl phthalate	84-74-2	19	200	400	--	9000	21	110	2000	1	19				
Di-n-octyl phthalate	117-84-0	22	--	--	--	2000	--	--	--	--	22				
Fluoranthene	206-44-0	0.04	40	50	--	8000	40	200	130	6.2	0.04				

TABLE 4-1G
Surface Water and Pore Water Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA					PADEP			PRGs for Ecological Endpoints	Most Stringent EPA Value (to be used for summary comparison)	
		Region 3 BTAG Freshwater Screening Benchmarks	Recommended Water Quality Criteria		10 x RSL Tap Water Carcinogenic Target Risk = 1E-06	10 x RSL Tap Water Non-Cancer Hazard Index (HI) = 1	Fish and Aquatic Life Criteria		Human Health Criteria			
			Human Health for Consumption of Water Plus Organism	Human Health for Consumption of Organism Only			Criteria Continuous Concentration	Criteria Maximum Concentration				
Fluorene	86-73-7	3	30	40	--	2900	--	--	1100	3.9	3	
Hexachlorobenzene	118-74-1	0.0003	0.0000064	0.0000064	0.098	160	--	--	0.00028	--	0.0000064	
Hexachlorobutadiene	87-68-3	1.3	0.008	0.008	1.4	65	2	10	0.44	--	0.008	
Hexachlorocyclopentadiene	77-47-4	--	0.6	0.6	--	4.1	1	5	40	--	0.6	
Hexachloroethane	67-72-1	12	0.1	0.1	3.3	62	12	60	1.4	12	0.1	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.0045	0.0048	0.34	--	--	--	0.0038	--	0.0045	
Isophorone	78-59-1	--	27	1100	780	38000	2100	10000	35	--	27	
Naphthalene	91-20-3	1.1	--	--	1.7	61	43	140	--	12	1.1	
Nitrobenzene	98-95-3	--	10	300	1.4	130	810	4000	17	--	1.4	
n-Nitrosodi-n-propylamine	621-64-7	--	0.005	0.51	0.11	--	--	--	0.005	--	0.005	
n-Nitrosodiphenylamine	86-30-6	210	3.3	6	120	--	59	300	3.3	210	3.3	
Pentachlorophenol	87-86-5	0.5	0.02	0.02	0.4	230	4.1 ⁽⁴⁾	5.3 ⁽⁴⁾	0.27	--	0.02	
Phanthrene	85-01-8	0.4	--	--	--	--	1	5	--	6.3	0.4	
Phenol	108-95-2	4	2000	100000	--	58000	--	--	21000	110	4	
Pyrene	129-00-0	--	20	20	--	1200	--	--	830	--	20	
Pesticides												
4,4'-DDD	72-54-8	0.011	0.000019	0.000019	0.31	--	0.001	1.1	0.00083	0.000041	0.000019	
4,4'-DDE	72-55-9	--	0.0000376	0.0000376	0.46	--	0.001	1.1	0.00059	--	0.0000376	
4,4'-DDT	50-29-3	0.0005	0.0000072	0.0000072	2.3	100	0.001	1.1	0.00059	0.000041	0.0000072	
Aldrin	309-00-2	3	0.000001	0.000001	0.0092	6	0.1	3	0.00013	--	0.000001	
alpha-BHC	319-84-6	--	0.00042	0.00047	0.071	970	--	--	0.0039	0.004	0.00042	
beta-BHC	319-85-7	--	0.0015	0.0016	0.25	--	--	--	0.014	0.004	0.0015	
Chlordane	12789-03-6	0.0022	0.0000068	0.0000068	0.45	13	--	2.4	0.0021	0.037	0.0000068	
delta-BHC	319-86-8	141	--	--	0.25	--	--	--	--	0.004	0.25	
Dieldrin	60-57-1	0.056	0.00001	0.00001	0.017	3.8	0.056	0.24	0.00014	--	0.00001	
Endosulfan I	959-98-8	0.051	8	10	--	1000	0.056	0.22	110	0.051	0.051	
Endosulfan II	33213-65-9	0.051	10	20	--	1000	0.056	0.22	110	0.051	0.051	
Endosulfan sulfate	1031-07-8	--	10	10	--	--	--	--	--	--	10	
Endrin	72-20-8	0.036	0.01	0.01	--	23	0.036	0.086	0.76	0.061	0.01	
Endrin aldehyde	7421-93-4	--	0.03	0.03	--	--	--	--	0.76	--	0.03	
Endrin ketone	53494-70-5	--	--	--	--	--	--	--	--	--	--	
gamma-BHC (Lindane)	58-89-9	0.01	2.5	2.8	0.41	36	--	0.95	0.019	0.08	0.01	
Heptachlor	76-44-8	0.0019	0.000023	0.000024	0.014	13	0.0038	0.52	0.00021	0.0069	0.000023	
Heptachlor epoxide	1024-57-3	0.0019	0.000016	0.000016	0.014	1.2	0.0038	0.5	0.0001	--	0.000016	
Methoxychlor	72-43-5	0.019	0.4	0.4	--	370	--	--	--	0.019	0.019	
Toxaphene	8001-35-2	0.0002	0.000019	0.000019	0.15	--	0.0002	0.73	0.00073	--	0.000019	
Herbicides												
2,4,5-T	93-76-5	686	--	--	--	1600	--	--	--	--	686	
2,4,5-TP (Silvex)	93-72-1	30	10	10	--	1100	--	--	--	--	10	
2,4-D	94-75-7	--	200	800	--	1700	--	--	--	--	200	
2,4-DB	94-82-6	--	--	--	--	1200	--	--	--	--	1200	
Dicamba	1918-00-9	--	--	--	--	5700	--	--	--	--	5700	
Dichlorprop	120-36-5	--	--	--	--	--	--	--	--	--	--	
MCPA	94-74-6	--	--	--	--	75	--	--	--	--	75	
MCPP	93-65-2	--	--	--	--	160	--	--	--	--	160	
PCBs												
Aroclor 1016	12674-11-2	0.000074	0.000064	0.000064	2.2	14	0.014	--	0.000044	0.23	0.000064	
Aroclor 1221	11104-28-2	0.000074	0.000064	0.000064	0.046	--	0.014	--	0.000044	0.28	0.000064	
Aroclor 1232	11141-16-5	0.000074	0.000064	0.000064	0.046	--	0.014	--	0.000044	0.58	0.000064	
Aroclor 1242	53469-21-9	0.000074	0.000064	0.000064	0.078	--	0.014	--	0.000044	0.047	0.000064	

TABLE 4-1G
Surface Water and Pore Water Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA					PADEP			PRGs for Ecological Endpoints	Most Stringent EPA Value (to be used for summary comparison)	
		Region 3 BTAG Freshwater Screening Benchmarks	Recommended Water Quality Criteria		10 x RSL Tap Water Carcinogenic Target Risk = 1E-06	10 x RSL Tap Water Non-Cancer Hazard Index (HI) = 1	Fish and Aquatic Life Criteria		Human Health Criteria			
			Human Health for Consumption of Water Plus Organism	Human Health for Consumption of Organism Only			Criteria Continuous Concentration	Criteria Maximum Concentration				
Aroclor 1248	12672-29-6	0.000074	0.000064	0.000064	0.078	--	0.014	--	0.000044	0.0019	0.000064	
Aroclor 1254	11097-69-1	0.000074	0.000064	0.000064	0.078	4	0.014	--	0.000044	0.0019	0.000064	
Aroclor 1260	11096-82-5	0.000074	0.000064	0.000064	0.078	--	0.014	--	0.000044	94	0.000064	
Inorganics												
Aluminum	7429-90-5	87	--	--	--	200000	--	750	--	87	87	
Antimony	7440-36-0	30	5.6	640	--	78	220	1100	5.6	30	5.6	
Arsenic	7440-38-2	5	0.018	0.14	0.52	60	150	340	10	3.1	0.018	
Barium	7440-39-3	4	1000	--	--	38000	4100	21000	2400	4	4	
Beryllium	7440-41-7	0.66	4 ⁽¹⁾	--	--	250	--	--	--	0.66	0.66	
Cadmium	7440-43-9	0.25	5 ⁽¹⁾	--	--	92	0.25 ⁽⁵⁾	2.01 ⁽⁵⁾	--	1.1	0.25	
Calcium	7440-70-2	116000	--	--	--	--	--	--	--	--	116000	
Chromium [III]	16065-83-1	74 ⁽⁵⁾	100 ⁽¹⁾	--	--	220000	74 ⁽⁵⁾	570 ⁽⁵⁾	--	210	74	
Chromium [IV]	18540-29-9	11 ⁽⁵⁾	100 ⁽¹⁾	--	0.35	440	10	16	--	11	0.35	
Cobalt	7440-48-4	23	--	--	--	60	19	95	--	23	23	
Copper	7440-50-8	9	1300	--	--	8000	9 ⁽⁵⁾	13 ⁽⁵⁾	--	12	9	
Cyanide	57-12-5	5 ⁽⁷⁾	3	400	--	15	5.2 ⁽⁷⁾	22 ⁽⁷⁾	140 ⁽⁷⁾	5.2	3	
Iron	7439-89-6	300	300 ⁽²⁾	300 ⁽²⁾	--	140000	--	--	--	1,000	300	
Lead	7439-92-1	2.5	--	--	--	150	2.5 ⁽⁵⁾	65 ⁽⁵⁾	--	3.2	2.5	
Magnesium	7439-95-4	82000	--	--	--	--	--	--	--	--	82000	
Manganese	7439-96-5	120	50	100	--	4300	--	--	--	120	50	
Mercury	7439-97-6	0.026	--	--	--	6.3	0.77	1.4	0.05	1.3	0.026	
Nickel	7440-02-0	52	610	4600	--	3900	52 ⁽⁵⁾	470 ⁽⁵⁾	610	160	52	
Potassium	7440-09-7	53000	--	--	--	--	--	--	--	--	53000	
Selenium	7782-49-2	1	170	4200	--	1000	4.6	--	--	0.39	1	
Sodium	7440-23-5	680000	--	--	--	940	--	--	--	--	940	
Silver	7440-22-4	3.2	--	--	--	--	--	3.2 ⁽⁵⁾	--	0.36	3.2	
Thallium	7440-28-0	0.8	0.24	0.47	--	2	13	65	0.24	9	0.24	
Vanadium	7440-62-2	20	--	--	--	860	100	510	--	20	20	
Zinc	7440-66-6	120	7400	26000	--	60000	120 ⁽⁵⁾	120 ⁽⁵⁾	--	110	120	

Notes:

-- Indicates no criteria for this constituent.

All concentrations are reported in micrograms per liter (ug/L).

BTAG - Biological Technical Assistance Group

CAS - Chemical Abstracts Service

PADEP - Pennsylvania Department of Environmental Protection

PRG - Preliminary Remediation Goals

RSL - Regional Screening Level

USEPA - United States Environmental Protection Agency

(1) Value based on EPA Drinking Water MCL.

(2) Value based on organoleptic effects (e.g., taste, odor).

(3) Value based on total xylenes.

(4) Criterion is pH dependent; value provided applies at pH = 6.5.

(5) Criterion is hardness dependent; value provided applies at hardness = 100 mg/L.

(6) Value corresponds to sum of cis- and trans- isomers.

(7) Cyanide reported as free cyanide.

Surface water/pore water criteria from:

USEPA Region III BTAG Freshwater Screening Benchmarks. July 2006.

Current National Recommended Water Quality Criteria. USEPA 822-R-02-047. Office of Water. <http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm>. Page accessed on October 8, 2014.

Regional Screening Levels for Chemical Contaminants at Superfund Sites – May 2014 Edition. United States Environmental Protection Agency. http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm. Webpage accessed on September 19, 2014.

Table 5, Chapter 93.8c, Water Quality Criteria for Toxic Substances. <http://www.pacode.com/secure/data/025/chapter93/s93.8c.html>. Pennsylvania Department of Environmental Protection. Adopted May 15, 2009; effective May 16, 2009.

Efroymson, R.A., G.W. Suter II, B.E. Sample, and D.S. Jones, 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, U.S. Department of Energy. August 1997.

TABLE 4-1H
Sediment Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA Region 3 BTAG Freshwater Sediment Screening Benchmarks	PRGs for Ecological Endpoints	Most Stringent EPA Value (to be used for summary comparison)
Volatile Organic Compounds				
1,1,1-Trichloroethane	71-55-6	0.0302	9.6	0.0302
1,1,2,2-Tetrachloroethane	79-34-5	1.36	5.4	1.36
1,1,2-Trichloroethane	79-00-5	1.24	9.8	1.24
1,1-Dichloroethane	75-34-3	--	0.027	--
1,1-Dichloroethene	75-35-4	0.031	3.5	0.031
1,2-Dichlorobenzene	95-50-1	0.0165	0.33	0.0165
1,2-Dichloroethane	107-06-2	--	4.3	--
1,2-Dichloropropane	78-87-5	--	--	--
1,3-Dichlorobenzene	541-73-1	4.43	1.7	4.43
1,3-Dichloropropene (cis- and trans-)	542-75-6	0.0000509 ⁽¹⁾	0.23 ⁽¹⁾	0.0000509
1,4-Dichlorobenzene	106-46-7	0.599	0.35	0.599
1,4-Dioxane	123-91-1			
2-Butanone (Methyl ethyl ketone)	78-93-3	--	0.27	--
2-Chloroethyl vinyl ether	110-75-8	--	--	--
2-Hexanone	591-78-6	--	0.023	--
4-Isopropyltoluene (Cymene)	99-87-6	--	--	--
4-Methyl-2-pentanone (MIBK)	108-10-1	--	15	--
Acetone	67-64-1	--	0.091	--
Acrolein	107-02-8	--	--	--
Acrylonitrile	107-13-1	--	--	--
Benzene	71-43-2	--	0.16	--
Bromodichloromethane	75-27-4	--	--	--
Bromoform	75-25-2	0.654	0.66	0.654
Bromomethane (Methyl bromide)	74-83-9	--	--	--
Carbon disulfide	75-15-0	0.000851	0.00086	0.000851
Carbon tetrachloride	56-23-5	0.0642	2	0.0642
Chlorobenzene	108-90-7	0.00842	0.417	0.00842
Chloroethane	75-00-3	--	--	--
Chloroform	67-66-3	--	0.96	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--
cis-1,2-Dichloroethene	156-59-2	--	0.40 ⁽¹⁾	--
Dibromochloromethane	124-48-1	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--
Ethylbenzene	100-41-4	1.1	5.4	1.1
Formaldehyde	50-00-0	--	--	--
Isopropyl benzene (Cumene)	98-82-8	0.086	--	0.086
Methylene chloride (Dichloromethane)	75-09-2	--	18	--
Styrene	100-42-5	0.559	--	0.559
Tetrachloroethene (PCE)	127-18-4	0.468	3.2	0.468
Toluene	108-88-3	--	0.05	--
trans-1,2-Dichloroethene	156-60-5	1.05	0.40 ⁽¹⁾	1.05
Trichloroethene (TCE)	79-01-6	0.0969	52	0.0969
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--
Vinyl chloride	75-01-4	--	--	--
m-Xylene	108-38-3	0.0252	--	0.0252
o-Xylene	95-47-6	--	--	--
p-Xylene	106-42-3	--	--	--
Xylenes (total)	1330-20-7	--	0.16	--
Semi-Volatile Organic Compounds				
1,2,4-Trichlorobenzene	120-82-1	--	9.7	--
1,2-Dichlorobenzene	95-50-1	0.0165	0.33	0.0165

TABLE 4-1H
Sediment Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA Region 3 BTAG Freshwater Sediment Screening Benchmarks	PRGs for Ecological Endpoints	Most Stringent EPA Value (to be used for summary comparison)
1,3-Dichlorobenzene	541-73-1	4.43	1.7	4.43
1,4-Dichlorobenzene	106-46-7	0.599	0.35	0.599
2,4,5-Trichlorophenol	95-95-4	--	--	--
2,4,6-Trichlorophenol	88-06-2	0.213	--	0.213
2,4-Dichlorophenol	120-83-2	0.117	--	0.117
2,4-Dimethylphenol	105-67-9	0.029	--	0.029
2,4-Dinitrophenol	51-28-5	--	--	--
2,4-Dinitrotoluene	121-14-2	0.0416	--	0.0416
2,6-Dinitrotoluene	606-20-2	--	--	--
2-Chloronaphthalene	91-58-7	--	--	--
2-Chlorophenol	95-57-8	0.0312	--	0.0312
2-Methylnaphthalene	91-57-6	0.0202	--	0.0202
2-Methylphenol (o-Cresol)	95-48-7	--	0.012	--
2-Nitroaniline	88-74-4	--	--	--
2-Nitrophenol	88-75-5	--	--	--
3,3'-Dichlorobenzidine	91-94-1	0.127	--	0.127
3-Nitroaniline	99-09-2	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	--	--	--
4-Bromophenyl phenyl ether	101-55-3	1.23	1.2	1.23
4-Chloro-3-methylphenol	59-50-7	--	--	--
4-Chloroaniline	106-47-8	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--
4-Methylphenol (p-Cresol)	106-44-5	0.67	--	0.67
4-Nitroaniline	100-01-6	--	--	--
4-Nitrophenol	100-02-7	--	--	--
Acenaphthene	83-32-9	0.0067	0.089	0.0067
Acenaphthylene	208-96-8	0.0059	0.13	0.0059
Anthracene	120-12-7	0.0572	0.25	0.0572
Benzo(a)anthracene	56-55-3	0.108	0.69	0.108
Benzo(a)pyrene	50-32-8	0.15	0.394	0.15
Benzo(b)fluoranthene	205-99-2	0.0272	4	0.0272
Benzo(g,h,i)perylene	191-24-2	0.17	6.3	0.17
Benzo(k)fluoroanthene	207-08-9	0.24	4 ⁽²⁾	0.24
Bis(2-chloroethoxy)methane	111-91-1	--	--	--
Bis(2-chloroethyl)ether	111-44-4	--	--	--
Bis(2-chloroisopropyl)ether	108-60-1	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	0.18	2.7	0.18
Butyl benzyl phthalate	85-68-7	10.9	--	10.9
Carbazole	86-74-8	--	--	--
Chrysene	218-01-9	0.166	0.85	0.166
Dibenzo(a,h)anthracene	53-70-3	0.033	0.0282	0.033
Dibenzofuran	132-64-9	0.415	0.42	0.415
Diethylphthalate	84-66-2	0.603	0.61	0.603
Dimethylphthalate	131-11-3	--	--	--
Di-n-butylphthalate	84-74-2	6.47	240	6.47
Di-n-octyl phthalate	117-84-0	--	--	--
Fluoranthene	206-44-0	0.423	0.834	0.423
Fluorene	86-73-7	0.0774	0.14	0.0774
Hexachlorobenzene	118-74-1	0.02	--	0.02
Hexachlorobutadiene	87-68-3	--	--	--
Hexachlorocyclopentadiene	77-47-4	--	--	--
Hexachloroethane	67-72-1	1.027	1	1.027
Indeno(1,2,3-cd)pyrene	193-39-5	0.017	0.837	0.017

TABLE 4-1H
Sediment Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA Region 3 BTAG Freshwater Sediment Screening Benchmarks	PRGs for Ecological Endpoints	Most Stringent EPA Value (to be used for summary comparison)
Isophorone	78-59-1	--	--	--
Naphthalene	91-20-3	0.176	0.39	0.176
Nitrobenzene	98-95-3	--	--	--
n-Nitrosodi-n-propylamine	621-64-7	--	--	--
n-Nitrosodiphenylamine	86-30-6	2.68	--	2.68
Pentachlorophenol	87-86-5	0.504	--	0.504
Phenanthrene	85-01-8	0.204	0.54	0.204
Phenol	108-95-2	0.42	0.032	0.42
Pyrene	129-00-0	0.195	1.4	0.195
PAHs (total)	NA	1.61	13.66	1.61
PAHs, High Molecular Weight	NA	0.19	4.354	0.19
PAHs, Low Molecular Weight	NA	0.076	3.369	0.076
Pesticides				
4,4'-DDD	72-54-8	0.00488	0.0078	0.00488
4,4'-DDE	72-55-9	0.00316	0.027	0.00316
4,4'-DDT	50-29-3	0.00416	0.052	0.00416
Aldrin	309-00-2	0.002	0.08	0.002
alpha-BHC	319-84-6	0.006	120	0.006
beta-BHC	319-85-7	0.005	120	0.005
Chlordane	12789-03-6	0.00324	0.0048	0.00324
delta-BHC	319-86-8	6.4	120	6.4
Dieldrin	60-57-1	0.0019	0.0043	0.0019
Endosulfan I	959-98-8	0.0029	0.0055	0.0029
Endosulfan II	33213-65-9	0.014	0.0055	0.014
Endosulfan sulfate	1031-07-8	0.0054	--	0.0054
Endrin	72-20-8	0.00222	0.045	0.00222
Endrin aldehyde	7421-93-4	--	--	--
Endrin ketone	53494-70-5	--	--	--
gamma-BHC (Lindane)	58-89-9	0.00237	0.00099	0.00237
Heptachlor	76-44-8	0.068	13	0.068
Heptachlor epoxide	1024-57-3	0.00247	--	0.00247
Methoxychlor	72-43-5	0.0187	0.019	0.0187
Toxaphene	8001-35-2	0.0001	--	0.0001
Herbicides				
2,4,5-T	93-76-5	12.3	--	12.3
2,4,5-TP (Silvex)	93-72-1	0.675	--	0.675
2,4-D	94-75-7	--	--	--
2,4-DB	94-82-6	--	--	--
Dicamba	1918-00-9	--	--	--
Dichlorprop	120-36-5	--	--	--
MCPA	94-74-6	--	--	--
MCPP	93-65-2	--	--	--
PCBs				
Aroclor 1016	12674-11-2	0.0598	0.53	0.0598
Aroclor 1221	11104-28-2	0.0598	0.12	0.0598
Aroclor 1232	11141-16-5	0.0598	0.6	0.0598
Aroclor 1242	53469-21-9	0.0598	0.29	0.0598
Aroclor 1248	12672-29-6	0.0598	1	0.0598
Aroclor 1254	11097-69-1	0.0598	72	0.0598
Aroclor 1260	11096-82-5	0.0598	63	0.0598
Inorganics				
Aluminum	7429-90-5	--	--	--

TABLE 4-1H
Sediment Screening Criteria
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	CAS Number	USEPA Region 3 BTAG Freshwater Sediment Screening Benchmarks	PRGs for Ecological Endpoints	Most Stringent EPA Value (to be used for summary comparison)
Antimony	7440-36-0	2	--	2
Arsenic	7440-38-2	9.8	42	9.8
Barium	7440-39-3	--	--	--
Beryllium	7440-41-7	--	--	--
Cadmium	7440-43-9	0.99	4.2	0.99
Calcium	7440-70-2	--	--	--
Chromium [III]	16065-83-1	43.4 (total)	159 (total)	43.4
Chromium [IV]	18540-29-9	43.4 (total)	159 (total)	43.4
Cobalt	7440-48-4	50	--	50
Copper	7440-50-8	31.6	77.7	31.6
Cyanide	57-12-5	--	--	--
Iron	7439-89-6	20000	--	20000
Lead	7439-92-1	35.8	110	35.8
Magnesium	7439-95-4	--	--	--
Manganese	7439-96-5	460	--	460
Mercury	7439-97-6	0.18	0.7	0.18
Nickel	7440-02-0	22.7	38.5	22.7
Potassium	7440-09-7	--	--	--
Selenium	7782-49-2	2	--	2
Silver	7440-22-4	1.0	1.8	1.0
Sodium	7440-23-5	--	--	--
Thallium	7440-28-0	--	--	--
Vanadium	7440-62-2	--	--	--
Zinc	7440-66-6	121	270	121

Notes:

All concentrations are reported in milligrams per kilogram (mg/kg).

-- Indicates no criteria for this constituent.

BTAG - Biological Technical Assistance Group

CAS - Chemical Abstracts Service

NA - Not applicable

PAHs - Polycyclic Aromatic Hydrocarbons

PRG - Preliminary Remediation Goals

USEPA - United States Environmental Protection Agency

(1) Value corresponds to sum of cis- and trans- isomers.

(2) Value corresponds to criterion for benzo(b,k)fluoranthene.

Sediment criteria from:

USEPA Region III BTAG Freshwater Screening Benchmarks. July 2006.

Efroymson, R.A., G.W. Suter II, B.E. Sample, and D.S. Jones, 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, U.S. Department of Energy. August 1997.

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #2	Property #2	Property #3	Property #3	Property #8	Property #9	Property #9	Property #10	Property #10	Property #11
		Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 1	Sample 2	Sample 1	Sample 2	Sample 1
Lab Sample No. Sampling Date		1006585B-15A 6/15/2010	1006585A-10A 6/15/2010	1008289B-02A 8/10/2010	1008289B-03A 8/10/2010	1008319-02A 8/11/2010	1006476A-01A 6/9/2010	1006476A-04A 6/9/2010	1006466B-13A 6/9/2010	1006476B-11A 6/9/2010	1009104A-04A 9/2/2010
1,1,1-Trichloroethane	17381	0.24	0.36	0.2 J	0.14 J	16	4.2	1	0.15 J	0.051 J	1.7
1,1,2-Tetrachloroethane	1.614	0.22 U	0.2 U	0.22 U	0.23 U	0.23 U	0.23 U	0.24 U	0.22 U	0.22 U	0.034 J
1,1,2-Trichloro-1,2,2-trifluoroethane	104286	53	77	0.53 J	0.51 J	0.72 J	0.8 J	0.67 J	0.58 J	0.64 J	0.84 J
1,1-Dichloroethane	58.49	0.13 U	0.1 U	0.13 U	0.023 J	0.14 U	0.097 J	0.14 U	0.13 U	0.13 U	0.049 J
1,1-Dichloroethene	695.2	0.08 J	0.1 J	0.19 U	0.2 U	0.20 U	0.19 U	0.21 U	0.19 U	0.19 U	0.018 J
1,2,4-Trimethylbenzene	695.2	0.79 U	0.74 U	0.79 U	0.59 J	1	1.2	4.1	0.44 J	0.37 J	0.3 J
1,2-Dichlorobenzene	3.600	0.96 U	0.90 U	0.96 U	1.0 U	1.0 U	0.96 U	1.1 U	0.96 U	0.96 U	0.96 U
1,2-Dichloroethane	9.359	0.04 J	0.040 J	0.08 J	0.57	0.061 J	0.10 J	0.17	0.073 J	0.08 J	0.029 J
1,2-Dichloropropane	--	0.74 U	0.69 U	0.74 U	0.79 U	0.79 U	0.74 U	0.83 U	0.74 U	0.74 U	0.74 U
1,2-Dimethylbenzene	24.33	0.18	0.083 J	0.04 J	0.4	1	0.61	2.8	0.17	0.19	0.052 J
1,3,5-Trimethylbenzene	--	0.17 J	0.74 U	0.79 U	0.21 J	0.31 J	0.35 J	1.1	0.79 U	0.79 U	0.79 U
1,3-Butadiene	3.120	0.35 U	0.33 U	0.35 U	0.084 J	0.38 U	0.21 J	0.40 U	0.2 J	0.35 U	0.35 U
1,3-Dichlorobenzene	--	0.96 U	0.90 U	0.96 U	1.0 U	1.0 U	0.96 U	0.20 J	0.96 U	0.96 U	0.96 U
1,4-Dichlorobenzene	8.508	0.96 U	0.90 U	0.35 J	0.84 J	1.0 U	0.3 J	0.51 J	0.3 J	0.17 J	0.96 U
1,4-Dioxane	18.72	0.58 U	0.54 U	1.1	1.9	1.2	0.58 U	0.7	0.58 U	0.58 U	0.58 U
2,2,4-Trimethylpentane	--	3.7 U	3.5 U	0.14 J	0.23 J	2.6 J	0.39 J	1.6 J	4 U	4 U	4 U
2-Butanone	17381	0.35 J	0.62	0.62 J	4.4 J	2.0 J	3.8	10	5	6.8	3.8
2-Hexanone	104.3	3.2 U	3.0 U	3.2 U	0.45 J	3.5 U J	3.4 U	7	0.70 J	3 U	0.8 J
4-Methyl-2-pentanone	10429	0.66 U	0.61 U	0.66 U	0.30 J	0.23 J	0.49 J	2.2	0.57 J	0.18 J	0.8
Acetone	107762	3.3	5.7	1.9 U	31	19	90	50	45	24	2 U
Acetonitrile	208.6	1.3 U	1.2 U	1.3 U	1.4 U	3.5	1.4 U	1.8	1 U	1 U	1 U
Benzene	12.00	0.086 J	0.3	1.4	1.1	4.2	0.8	3	1.2	0.19 J	0.35
Benzyl chloride	1.910	0.83 U	0.78 U	0.83 U	0.88 U	0.88 U	0.83 U	0.93 U	0.83 U	0.83 U	0.83 U
Bromodichloromethane	2.529	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
Bromomethane	17.38	0.62 U	0.62	0.62 U	0.66 U	0.66 U J	0.93	0.58 J	0.58 J	0.8	0.62 U
Carbon disulfide	2433	0.78 J	6	2.3 J	40	3.4	9	13	1.2 J	24	1.8 J
Carbon tetrachloride	15.60	0.21 J	0.3 J	0.36 J	0.28 J	1.1 U	1.0 U	0.1 J	0.2 J	0.3 J	0.40 J
Chloroethane	34762	0.42 U	0.40 U	0.42 U	0.58	0.15 J	0.42 U	0.47 U	0.42 U	0.42 U	0.42 U
Chloroform	4.069	0.63 J	0.27 J	0.23 J	1	0.19 J	1	2.2	0.21 J	0.28 J	5.9
Chloromethane	312.9	0.19 J	0.45	0.19 J	3.3	0.54	0.33 U	0.5	0.18 J	0.33 U	0.33 U
cis-1,2-Dichloroethene	--	0.13 U	0.1 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 U	0.13 U	0.13 U	0.44
Cyclohexane	20857	0.55 U	0.52 U	0.55 U	0.19 J	1.1	0.25 J	0.62	0.55 U	0.55 U	1.5
Dichlorodifluoromethane	347.6	4.8	7.9	2.1	2.4	4.8	2.2	2	2	2	3.8
Ethanol	--	1.3 J	2	2.4	6	9.2	14	19	18	6.4	1.00 J
Ethylbenzene	37.44	0.2	0.100 J	0.052 J	0.38	0.96	0.52	2.1	0.19	0.18	0.052 J
Freon 114	--	0.65 U	0.61 U	0.65 U	0.70 U	0.70 U	0.65 U	0.74 U	0.65 U	0.65 U	0.65 U
Isopropanol	695.2	1.9 U	0.39 J	0.39 J	1.5 J	0.79 J	2.1	4.2	3.2	1.6 J	2 U
Isopropylbenzene	1390	0.79 U	0.74 U	1.1	0.27 J	1.1	0.79 U	3.7	0.79 U	0.79 U	0.79 U
m/p-Xylene	347.6	0.33	0.20 J	0.09 J	0.69	3	1.4	6.9	0.4	0.42	0.1 J
Methyl t-butyl ether (MTBE)	360.0	0.58 U	0.54 U	0.58 U	0.61 U	0.043 J	0.050 J	0.26 J	0.04 J	0.065 J	0.58 U
Methylene chloride	2086	1.1 U J	1 U	1.7	1.2 U	1.2 U	1.1 U	0.7 J	1.1 U	1.1 U	1.1 U
Naphthalene	2.753	4.1 U	3.9 U	4.1 U	4.4 U	4.5 U	4.3 U	5	4 U	4 U	4 U
n-Heptane	--	0.66 U	0.61 U	0.13 J	1.4	1.2	0.53 J	1.6	0.66 U	0.18 J	0.34 J
n-Hexane	2433	0.56 U	0.53 U	0.14 J	1	3.9	0.63	1.9	0.29 J	0.25 J	0.46 J
n-Nonane	69.52	4.1 U	3.9 U	4.1 U	4.4	4.5 U	4.3 U	6.8	4 U	4 U	4 U
n-Propylbenzene	3476	0.79 U	0.74 U	0.79 U	0.20 J	0.24 J	0.18 J	0.64 J	0.79 U	0.79 U	0.79 U

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #2	Property #2	Property #3	Property #3	Property #8	Property #9	Property #9	Property #10	Property #10	Property #11
		Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 1	Sample 2	Sample 1	Sample 2	Sample 1
Lab Sample No. Sampling Date		1006585B-15A 6/15/2010	1006585A-10A 6/15/2010	1008289B-02A 8/10/2010	1008289B-03A 8/10/2010	1008319-02A 8/11/2010	1006476A-01A 6/9/2010	1006476A-04A 6/9/2010	1006466B-13A 6/9/2010	1006476B-11A 6/9/2010	1009104A-04A 9/2/2010
p-Ethyltoluene	--	0.79 U	0.74 U	0.79 U	0.4 J	0.74 J	0.69 J	2.5	0.33 J	0.2 J	0.79 U
Propylene	10429	1.4 U	1.3 U	1.4 U	1.4 U	2.1	7.9	2.9	8.3	1 U	1.1 J
Styrene	3476	0.68 U	0.64 U	0.17 J	8.9	0.23 J	1	3.9	0.4 J	0.24 J	0.68 U
tert-Butylalcohol	--	10 U	9 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	1.2 J
Tetrachloroethene	139.05	0.22 U	0.2 U	0.22 U	0.31	0.7	1.2	1.1	0.19 J	0.56	0.95
Tetrahydrofuran	6952	2.3 U	2.2 U	2.3 U	2.5	0.83 J	2.4 U	0.65 J	2 U	2 U	2 U
Toluene	17381	0.79	0.72	0.12 U	2	6.8	3.5	13	0.83	0.72	0.2
trans-1,2-Dichloroethene	--	0.63 U	0.59 U	0.63 U	0.67 U	0.67 U	0.63 U	0.71 U	0.63 U	0.63 U	0.63 U
Trichloroethene	6.952	0.17 U	0.018 J	0.19	0.18 J	0.05 J	0.12 J	0.051 J	0.17 U	0.033 J	97
Trichlorofluoromethane	--	1.5	1.6	1.2	1.6	7.3	1.2	1.2	1.2	0.96	5.4
Vinyl chloride	5.586	0.041 U	0.038 U	0.041 U	0.041 J	0.043 U	0.041 U	0.046 U	0.041 U	0.041 U	0.03 J

Notes:

All units in ug/m³.

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #11	Property #11	Property #11	Property #12	Property #12	Property #13	Property #14	Property #16	Property #16	Property #16
		Sample 2	Sample 1 Re-Sample	Sample 2 Re-Sample	Sample 1	Sample 2	Sample 1	Sample 1	Sample 1	Sample 2	Sample 3
Lab Sample No. Sampling Date		1009104A-05A 9/2/2010	1011576-01A 11/23/2010	1011576-02A 11/23/2010	1006051A-09A 5/27/2010	1006051A-10A 5/27/2010	1006585A-03A 6/15/2010	1006585A-06A 6/15/2010	1009104A-10A 9/2/2010	1009104B-11A 9/2/2010	1101210-01A 1/13/2011
1,1,1-Trichloroethane	17381	2.3	0.35 J	0.16 J	0.19 U	0.18 U	0.51	0.060 J	6	1.4	0.65
1,1,2-Tetrachloroethane	1.614	1.9 U	1.1 U	0.22 U	0.23 U	0.23 U	0.25 U	0.53 U	0.82 U	0.12 J	0.21 U
1,1,2-Trichloro-1,2,2-trifluoroethane	104286	1.9 J	6.1 U	0.52 J	2.1	1.2 U	0.57 J	0.8 J	7.4	4	0.92 J
1,1-Dichloroethane	58.49	0.2 J	0.65 U	0.13 U	0.14 U	0.13 U	0.15 U	0.31 U	0.18 J	0.033 J	0.039 J
1,1-Dichloroethene	695.2	1.7 U	0.95 U	0.19 U	0.2 U	0.19 U	0.21 U	0.44 U	0.25 J	0.19 U	0.048 J
1,2,4-Trimethylbenzene	695.2	6.9 U	3.9 U	1.2	0.84 U	0.79 U	0.37 J	1.3 J	0.69 J	0.34 J	0.79 U
1,2-Dichlorobenzene	3.600	8.4 U	4.7 U	0.96 U	1.0 U	0.96 U	1.1 U	2.3 U	3.7 U	0.96 U	0.96 U
1,2-Dichloroethane	9.359	0.15 J	0.65 U	0.13 U	0.14 U	0.13 U	0.057 J	0.093 J	NA	0.026 J	0.13 U
1,2-Dichloropropane	--	6.5 U	3.7 U	0.74 U	0.79 U	0.74 U	0.83 U	1.8 U	2.8 U	0.74 U	0.74 U
1,2-Dimethylbenzene	24.33	0.15 J	0.69 U	0.42	0.43	0.14 U	0.096 J	0.14 J	0.32 J	0.2	0.032 J
1,3,5-Trimethylbenzene	--	6.9 U	3.9 U	0.36 J	0.84 U	0.79 U	0.88 U	0.74 J	3.0 U	0.79 U	0.79 U
1,3-Butadiene	3.120	3.1 U	1.7 U	0.35 U	0.4	0.35 U	0.40 U	0.84 U	1.3 U	0.35 U	0.35 U
1,3-Dichlorobenzene	--	8.4 U	4.7 U	0.96 U	1.0 U	0.96 U	1.1 U	2.3 U	3.7 U	0.96 U	0.96 U
1,4-Dichlorobenzene	8.508	8.4 U	4.7 U	0.96 U	1.0 U	0.96 U	0.40 J	2.3 U	3.7 U	0.96 U	0.96 U
1,4-Dioxane	18.72	5.0 U	2.8 U	1.3	0.61 U	0.58 U	0.65 U	1.4 U	1.4 J	1.2	0.58 U
2,2,4-Trimethylpentane	--	33 U	20 U	3.7 U	3.9 U	3.8 U	4 U	1.1 J	10 U	3.7 U	0.26 J
2-Butanone	17381	9.4	2 J	2.9	0.8	1.4	2.1	6.2	6	2.8	0.71
2-Hexanone	104.3	29 U	20 U	0.66 J	3.4 U	3.4 U	0.30 J	0.90 J	NA	0.78 J	3.2 U
4-Methyl-2-pentanone	10429	5.7 U	3.2 U	0.66 U	0.70 U	0.66 U	0.14 J	0.4 J	2.5 U	0.66 U	0.66 U
Acetone	107762	38	100	20	11	10	29	45	26	22	5.5
Acetonitrile	208.6	12 U	7 U	2.5	1.4 U	1.4 U	2 U	3.2 U	5 U	1.3 U	1.3 U
Benzene	12.00	1.1 J	0.42 J	1.5	1.3	0.26 U	0.45	0.31 J	1.2	0.42	0.26
Benzyl chloride	1.910	7.2 U	4.1 U	0.83 U	0.88 U	0.83 U	0.93 U	2.0 U	3.2 U	0.83 U	0.83 U
Bromodichloromethane	2.529	9.4 U	5.3 U	1.1 U	1.1 U	1.1 U	1.2 U	2.5 U	4.1 U	1.1 U	1.1 U
Bromomethane	17.38	5.4 U	3.1 U	0.62 U	1.1	0.7	0.70 J	0.97 J	2.4 U	0.62 U	0.62 U
Carbon disulfide	2433	22 U	10 U	0.84 J	2.6 U	2.6 U	2.4 J	1.7 J	3.4 J	1.6 J	0.26 J
Carbon tetrachloride	15.60	8.8 U	5.0 U	0.50 J	1.1 U	1.0 U	1.1 U	2.4 U	0.75 J	0.33 J	0.34 J
Chloroethane	34762	3.7 U	2.1 U	0.58	0.45 U	0.42 U	0.47 U	1.0 U	1.6 U	0.69	0.42 U
Chloroform	4.069	47	10	4.1	0.83 U	0.78 U	0.5 J	1.9 U	0.54 J	0.19 J	0.78 U
Chloromethane	312.9	2 J	1.6 U	0.97	0.35 U	2	0.4	0.78 U	1.3 U	1	0.33 U
cis-1,2-Dichloroethene	--	19	8.3	0.14	0.13 U	0.13 U	0.14 U	0.31 U	0.44 J	0.13 U	0.095 J
Cyclohexane	20857	4.8 U	2.7 U	3.1	0.59 U	0.55 U	0.62 U	1.3 U	2.1 U	0.55 U	0.55 U
Dichlorodifluoromethane	347.6	2.8 J	2.1 J	2.4	1.9	1.9	4	2	3	2.7	2.4
Ethanol	--	9.2 J	8 U	4.7	1.6 U	1.5 U	2.8	28	6	3.2	2.3
Ethylbenzene	37.44	0.15 J	0.69 U	0.91	0.33	0.14 U	0.083 J	0.19 J	0.13 J	0.14	0.034 J
Freon 114	--	5.7 U	3.2 U	0.65 U	0.70 U	0.65 U	0.74 U	0.70 J	4.9	2.2	0.57 J
Isopropanol	695.2	17 U	10 U	1.3 J	2.1 U	2.0 U	0.66 J	9.3	2.9 J	1.7 J	1.9 U
Isopropylbenzene	1390	6.9 U	3.9 U	0.54 J	0.84 U	0.79 U	0.84 J	10	3.0 U	0.79 U	0.79 U
m/p-Xylene	347.6	0.40 J	1.4 U	1	0.74	0.29 U	0.20 J	0.32 J	0.61 J	0.43	0.078 J
Methyl t-butyl ether (MTBE)	360.0	5.0 U	2.8 U	0.58 U	0.61 U	0.58 U	0.20 J	1.4 U	2.2 U	0.03 J	0.02 J
Methylene chloride	2086	10 U	5.6 U	1.1 U	1.2 U	1.1 U	1.3 U	2.7 U	4.2 U	0.49 J	0.2 J
Naphthalene	2.753	37 U	20 U	3.6 J	4.4 U	4.3 U	5 U	10 U	20 U	4.1 U	4.1 U
n-Heptane	--	5.7 U	3.2 U	0.66 U	0.74	0.66 U	0.74 U	1.6 U	1 J	0.25 J	0.26 J
n-Hexane	2433	4.9 U	2.8 U	1.1	1.3	0.56 U	0.63 U	0.30 J	1.3 J	0.19 J	0.19 J
n-Nonane	69.52	37 U	20 U	4.1 U	12	4.3 U	5 U	10 U	20 U	4.1 U	4.1 U
n-Propylbenzene	3476	6.9 U	3.9 U	0.93	0.84 U	0.79 U	0.88 U	0.47 J	3.0 U	0.18 J	0.79 U

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #11	Property #11	Property #11	Property #12	Property #12	Property #13	Property #14	Property #16	Property #16	Property #16
		Sample 2	Sample 1 Re-Sample	Sample 2 Re-Sample	Sample 1	Sample 2	Sample 1	Sample 1	Sample 1	Sample 2	Sample 3
Lab Sample No. Sampling Date		1009104A-05A 9/2/2010	1011576-01A 11/23/2010	1011576-02A 11/23/2010	1006051A-09A 5/27/2010	1006051A-10A 5/27/2010	1006585A-03A 6/15/2010	1006585A-06A 6/15/2010	1009104A-10A 9/2/2010	1009104B-11A 9/2/2010	1101210-01A 1/13/2011
p-Ethyltoluene	--	6.9 U	3.9 U	0.59 J	0.84 U	0.79 U	0.23 J	1.3 J	3.0 U	0.16 J	0.79 U
Propylene	10429	12 U	7 U	1.4 U	14	1.4 U	2 U	3.3 U	5 U	0.93 J	1.3 U
Styrene	3476	6.0 U	3.4 U	0.68 U	0.72 U	0.68 U	0.77 U	1.6 U	2.6 U	0.51 J	0.68 U
tert-Butylalcohol	--	2.5 J	49 U	0.33 J	10 U	10 U	11 U	23 U	1.1 J	0.76 J	0.23 J
Tetrachloroethene	139.05	10	7	0.95	0.23 U	0.28	1.1	0.52 U	0.62 J	0.14 J	0.081 J
Tetrahydrofuran	6952	21 U	10 U	0.50 J	2.5 U	2.4 U	3 U	5.6 U	9 U	0.68 J	2.3 U
Toluene	17381	0.53 J	0.60 U	0.12 U	1.2	0.16	0.4	1.2	0.68	0.68	0.14
trans-1,2-Dichloroethene	--	0.34 J	3.1 U	0.63 U	0.67 U	0.63 U	0.71 U	1.5 U	2.4 U	0.63 U	0.63 U
Trichloroethene	6.952	1720	645	64	0.18 U	0.18 U	0.19 U	0.41 U	591	17	70
Trichlorofluoromethane	--	3.7 J	1.2 J	1.2	1.3	1	1.6	1.3 J	15	6.2	2.6
Vinyl chloride	5.586	0.36 U	0.20 U	0.041 U	0.12	0.041 U	0.019 J	0.097 U	0.16 U	0.033 J	0.041 U

Notes:

All units in ug/m3.

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #16	Property #19	Property #19	Property #20	Property #20	Property #21	Property #22	Property #23	Property #23	Property #24
		Sample 4	Sample 1	Sample 2	Sample 1	Duplicate of Sample 1	Sample 1	Sample 1	Sample 1	Sample 2	Sample 1
Lab Sample No. Sampling Date		1101210-03A 1/13/2011	1006689-02A 6/23/2010	1006689-03A 6/23/2010	1006476B-15A 6/10/2010	1006476B-16A 6/10/2010	1008538-02A 8/20/2010	1005570R1-07A 5/20/2010	1006527A-01A 6/16/2010	1006527A-02A 6/16/2010	1009104A-01A 9/2/2010
1,1,1-Trichloroethane	17381	0.13 J	0.03 J	0.021 J	0.029 J	0.032 J	0.82	0.35 J	0.15 J	0.065 J	1.5
1,1,2,2-Tetrachloroethane	1.614	0.2 U	0.25 U	0.22 U	0.2 U	0.19 U	0.22 U	0.5 U	0.22 U	0.23 U	0.059 J
1,1,2-Trichloro-1,2,2-trifluoroethane	104286	0.40 J	0.57 J	0.57 J	0.64 J	0.37 J	0.56 J	1.6 J	0.58 J	0.92 J	0.66 J
1,1-Dichloroethane	58.49	0.1 U	0.15 U	0.13 U	0.1 U	0.11 U	0.13 U	0.3 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	695.2	0.18 U	0.22 U	0.19 U	0.18 U	0.17 U	0.19 U	0.48 U	0.19 U	0.19 U	0.19 U
1,2,4-Trimethylbenzene	695.2	0.74 U	0.88 U	0.79 U	0.54 J	1.7	0.79 U	1.3 J	0.5 J	0.79 U	0.59 J
1,2-Dichlorobenzene	3.600	0.90 U	1.1 U	0.96 U	0.90 U	0.16 J	0.96 U	2 U	0.96 U	0.96 U	0.96 U
1,2-Dichloroethane	9.359	0.1 U	0.29	1.1	0.097 J	0.45	0.045 J	0.3 U	0.045 J	0.4	0.35
1,2-Dichloropropane	--	0.69 U	0.83 U	0.74 U	0.69 U	0.65 U	0.74 U	2 U	0.74 U	0.74 U	0.74 U
1,2-Dimethylbenzene	24.33	0.052 J	0.043 J	0.13 J	0.2	1.4	0.034 J	0.36	0.32	0.052 J	0.4
1,3,5-Trimethylbenzene	--	0.74 U	0.88 U	0.79 U	0.19 J	0.46 J	0.79 U	0.47 J	0.17 J	0.79 U	0.79 U
1,3-Butadiene	3.120	0.33 U	0.40 U	0.35 U	0.33 U	0.31 U	0.35 U	0.9 U	0.12 J	0.35 U	0.35 U
1,3-Dichlorobenzene	--	0.90 U	1.1 U	0.96 U	0.90 U	0.84 U	0.96 U	2 U	0.96 U	0.96 U	0.96 U
1,4-Dichlorobenzene	8.508	0.90 U	1.1 U	0.96 U	0.90 U	0.84 U	0.96 U	2 U	0.38 J	0.96 U	1
1,4-Dioxane	18.72	0.54 U	0.65 U	0.58 U	0.54 U	0.50 U	0.4 J	1 U	0.32 J	5	1.2
2,2,4-Trimethylpentane	--	3.5 U	4.3 U	3.7 U	0.1 J	0.89 J	0.4 J	0.51 J	3.7 U	3.8 U	3.7 U
2-Butanone	17381	0.9	0.6	1.4	2	2	0.47 U	3.8	4.4	1.7	2.8
2-Hexanone	104.3	3.0 U	3.8 U	3.2 U	3.1 U	3 U	3.2 U	8 U	0.78 J	3.4 U	0.66 J
4-Methyl-2-pentanone	10429	0.61 U	0.21 J	0.35 J	0.13 J	0.57 U	0.13 J	2 U	0.3 J	0.66 U	0.26 J
Acetone	107762	5.5	13	33	23	18	15	19	26	11	26
Acetonitrile	208.6	1.2 U	1.5 U	1.3 U	1.3 U	1.3	2.5	3 U	1.3 U	1.4 U	1.3 U
Benzene	12.00	0.11 J	0.12 J	0.18 J	0.28	1.6	0.2 J	0.25 J	0.67	0.21 J	0.31
Benzyl chloride	1.910	0.78 U	0.93 U	0.83 U	0.78 U	0.72 U	0.83 U	2 U	0.83 U	0.83 U	0.83 U
Bromodichloromethane	2.529	1.0 U	1.2 U	1.1 U	1.0 U	0.94 U	1.1 U	3 U	1.1 U	1.1 U	1.1 U
Bromomethane	17.38	0.58 U	0.8	0.85	0.82	0.43 J	0.62 U	1.2 J	0.7	0.62 J	1.7
Carbon disulfide	2433	0.40 J	0.81 J	1.3 J	4.7	0.87 J	2.0 J	6 U	8.4	19	8.7
Carbon tetrachloride	15.60	0.30 J	0.26 J	0.21 J	0.32 J	0.28 J	1.0 U	0.30 J	1.0 U	0.26 J	0.28 J
Chloroethane	34762	0.40 U	0.47 U	0.42 U	0.40 U	0.37 U	0.42 U	1 U	0.22 J	0.42 U	0.42 U
Chloroform	4.069	0.12 J	0.63 J	0.12 J	0.73 U	0.68 U	19	2 U	0.24 J	0.3 J	1.3
Chloromethane	312.9	0.19 J	0.37 U	0.29 J	0.43	0.89	0.5	0.8 U	0.43	0.54	0.37
cis-1,2-Dichloroethene	--	0.1 U	0.15 U	0.13 U	0.1 U	0.11 U	0.13 U	0.3 U	0.13 U	0.13 U	0.13 U
Cyclohexane	20857	0.52 U	0.62 U	0.55 U	0.52 U	0.20 J	0.11 J	1 U	0.55 U	0.55 U	0.12 J
Dichlorodifluoromethane	347.6	2.3	2.1	2.1	2.1	1.9	2.4	1.9 J	2	2	2.6
Ethanol	--	1.5	34	64	14	13	12	11	8.3	3.2	2.8
Ethylbenzene	37.44	0.031 J	0.065 J	0.16	0.2	1.3	0.052 J	0.30 J	0.23	0.039 J	0.41
Freon 114	--	0.61 U	0.74 U	0.65 U	0.61 U	0.57 U	0.65 U	2 U	0.65 U	0.65 U	0.074 J
Isopropanol	695.2	1.8 U	2.4	3.4	2	3.9	0.93 J	5 U	1.2 J	0.37 J	1 J
Isopropylbenzene	1390	0.74 U	0.88 U	0.79 U	1	0.64 J	0.79 U	2 U	0.79 U	0.79 U	0.79 U
m/p-Xylene	347.6	0.11 J	0.11 J	0.39	0.56	4.8	0.096 J	1.1	0.69	0.056 J	0.91
Methyl t-butyl ether (MTBE)	360.0	0.023 J	0.65 U	0.58 U	0.54 U	0.040 J	0.024 J	1 U	0.58 U	0.58 U	0.58 U
Methylene chloride	2086	0.49 J	1.3 U	1.8	1 U	0.45 J	2.2	3 U	1.1 U J	1.1 U J	1.1 U
Naphthalene	2.753	3.9 U	4.8 U	4.1 U	4.0 U	1 J	4.1 U	10 U	4.1 U	4.3 U	1.1 J
n-Heptane	--	0.61 U	0.74 U	0.66 U	0.36 J	0.66	0.12 J	0.94 J	0.1 J	0.66 U	0.57 J
n-Hexane	2433	0.53 U	0.63 U	0.56 U	0.63	1.3	0.2 J	1.2 J	0.13 J	0.56 U	0.7
n-Nonane	69.52	3.9 U	4.8 U	4.1 U	4.0 U	4 U	4.1 U	10 U	4.1 U	4.3 U	4.1 U
n-Propylbenzene	3476	0.74 U	0.88 U	0.79 U	0.1 J	0.35 J	0.79 U	2 U	0.14 J	0.79 U	0.79 U

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #16	Property #19	Property #19	Property #20	Property #20	Property #21	Property #22	Property #23	Property #23	Property #24
		Sample 4	Sample 1	Sample 2	Sample 1	Duplicate of Sample 1	Sample 1	Sample 1	Sample 1	Sample 2	Sample 1
Lab Sample No. Sampling Date		1101210-03A 1/13/2011	1006689-02A 6/23/2010	1006689-03A 6/23/2010	1006476B-15A 6/10/2010	1006476B-16A 6/10/2010	1008538-02A 8/20/2010	1005570R1-07A 5/20/2010	1006527A-01A 6/16/2010	1006527A-02A 6/16/2010	1009104A-01A 9/2/2010
p-Ethyltoluene	--	0.74 U	0.88 U	0.23 J	0.39 J	1.3	0.79 U	0.88 J	0.39 J	0.79 U	0.31 J
Propylene	10429	1.3 U	1.6 U	1.4 U	1.3 U	1 U	2.8	3 U	3	1.4 U	1.7
Styrene	3476	0.64 U	0.28 J	1.3	0.2 J	0.18 J	0.68 U	2 U	6	0.68 U	3.2
tert-Butylalcohol	--	9 U	11 U	10 U	9 U	8.5 U	10 U	20 U	10 U	10 U	1.6 J
Tetrachloroethene	139.05	0.043 J	0.25 U	0.26	0.2 J	0.2	0.17 J	0.5 U	1.8	5.1	0.11 J
Tetrahydrofuran	6952	2.2 U	2.7 U	2.3 U	1.1 J	0.65 J	2.3 U	6 U	2.3 U	2.4 U	0.74 J
Toluene	17381	0.13	0.45	0.83	1.6	10	0.17	0.98	2	0.2	2.2
trans-1,2-Dichloroethene	--	0.59 U	0.71 U	0.63 U	0.59 U	0.56 U	0.63 U	2 U	0.63 U	0.63 U	0.63 U
Trichloroethene	6.952	2.4	0.020 J	0.17 U	0.029 J	0.2	0.02 J	0.2 J	1.3	0.28	6.4
Trichlorofluoromethane	--	0.96	16	26	1.2	1	1.2	1.2 J	1.1	1	2.4
Vinyl chloride	5.586	0.038 U	0.046 U	0.041 U	0.038 U	0.021 J	0.024 J	0.1 U	0.041 U	0.041 U	0.041 U

Notes:

All units in ug/m³.

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #24	Property #26	Property #26	Property #28	Property #28	Property #28	Property #28	Property #29	Property #29	Property #30
		Sample 2	Sample 1	Sample 2	Sample 1	Sample 2	Duplicate of Sample 2	Sample 3	Sample 1	Sample 2	Sample 1
Lab Sample No. Sampling Date		1009104A-02A 9/2/2010	1006585A-07A 6/15/2010	1006585A-08A 6/15/2010	1005570R1-01A 5/20/2010	1005570R1-05A 5/20/2010	1005570R1-06A 5/20/2010	1005570R1-02A 5/20/2010	1006051A-01A 5/27/2010	1006051A-06A 5/27/2010	1006051A-04A 6/23/2010
1,1,1-Trichloroethane	17381	3.3	2.2	0.13 J	0.27	0.45	0.51	0.34	0.17 U	0.20 U	0.20 U
1,1,2,2-Tetrachloroethane	1.614	0.076 J	0.22 U	0.24 U	0.2 U	0.5 U	0.19 U	0.23 U	0.22 U	0.25 U	0.25 U
1,1,2-Trichloro-1,2,2-trifluoroethane	104286	0.74 J	1.00 J	0.8 J	1.5	4	1.8	1.8	1.2 U	1.5 U	1.4 U
1,1-Dichloroethane	58.49	0.14 U	0.18	0.14 U	0.1 U	0.1 J	0.0093 J	0.14 U	0.13 U	0.15 U	0.15 U
1,1-Dichloroethene	695.2	0.21 U	0.3	0.21 U	0.18 U	0.48 U	0.022 J	0.2 U	0.19 U	0.22 U	0.21 U
1,2,4-Trimethylbenzene	695.2	0.40 J	0.3 J	0.88 U	1.1	2 U	0.33 J	0.48 J	0.79 U	0.93 U	0.88 U
1,2-Dichlorobenzene	3.600	1.1 U	0.96 U	1.1 U	0.90 U	2 U	0.84 U	1.0 U	0.96 U	1.1 U	1.1 U
1,2-Dichloroethane	9.359	NA	0.39	0.057 J	0.13	0.065 J	0.31	0.040 J	0.13 U	0.15 U	0.14 J
1,2-Dichloropropane	--	2	2.2	0.83 U	0.69 U	2 U	0.65 U	0.79 U	0.74 U	0.88 U	0.83 U
1,2-Dimethylbenzene	24.33	0.15 J	0.24	0.15 J	1	0.48	0.34	0.48	0.2	0.16 U	0.32
1,3,5-Trimethylbenzene	--	0.88 U	0.79 U	0.88 U	0.35 J	2 U	0.69 U	0.84 U	0.79 U	0.93 U	0.88 U
1,3-Butadiene	3.120	0.40 U	0.35 U	0.40 U	0.33 U	0.9 U	0.31 U	0.38 U	0.35 U	0.42 U	0.40 U
1,3-Dichlorobenzene	--	1.1 U	0.96 U	1.1 U	0.90 U	2 U	0.84 U	1.0 U	0.96 U	1.1 U	1.1 U
1,4-Dichlorobenzene	8.508	0.41 J	0.20 J	1.1 U	0.25 J	2 U	0.84 U	1.0 U	0.96 U	1.1 U	1.1 U
1,4-Dioxane	18.72	0.54 J	0.58 U	0.65 U	0.54 U	1 U	0.21 J	0.97	0.58 U	0.68 U	0.65 U
2,2,4-Trimethylpentane	--	4.1 U	4 U	4.1 U	1.8 J	0.61 J	0.36 J	0.98 J	4 U	4.4 U	4 U
2-Butanone	17381	2.4	1.7	0.91	3.5	1.5	1.4	1.7	2.5	3.8	3.8
2-Hexanone	104.3	0.53 J	3 U	3.6 U	3.1 U	8 U	3 U	3.4 U	3 U	3.9 U	4 U
4-Methyl-2-pentanone	10429	0.74 U	0.14 J	0.74 U	0.74	0.23 J	0.2 J	0.14 J	0.78	0.78 U	0.74 U
Acetone	107762	2.1 U	18	11	24	15	11	13	43	33	36
Acetonitrile	208.6	1.5 U	1 U	1.5 U	1.3 U	3 U	1 U	1.4 U	1 U	1.6 U	2 U
Benzene	12.00	0.67	0.27	0.35	3	0.45 J	0.3	3.8	0.3 J	0.30 U	2.1
Benzyl chloride	1.910	0.93 U	0.83 U	0.93 U	0.78 U	NA	NA	0.88 U	0.83 U	0.98 U	0.93 U
Bromodichloromethane	2.529	1.2 U	1.1 U	1.2 U	1.0 U	3 U	0.94 U	1.1 U	1.1 U	1.3 U	1.2 U
Bromomethane	17.38	0.70 U	0.85	0.7	0.82	2.2	0.74	1.1	0.82	0.82	1.1
Carbon disulfide	2433	12	2.5 J	3.7	0.9 J	6 U	1.3 J	0.59 J	2 U	2.9 U	3 U
Carbon tetrachloride	15.60	0.3 J	0.28 J	0.26 J	0.36 J	0.28 J	0.48 J	0.36 J	1.0 U	1.2 U	1.1 U
Chloroethane	34762	0.47 U	0.42 U	0.47 U	0.40 U	1 U	0.37 U	0.45 U	0.42 U	0.50 U	0.47 U
Chloroform	4.069	1.6	0.88	0.46 J	0.18 J	2 U	0.73	0.83 U	0.83	0.93 U	0.88 U
Chloromethane	312.9	0.2 J	0.33 U	0.29 J	0.31 U	0.8 U	8	0.35 U	0.33 U	0.39 U	1
cis-1,2-Dichloroethene	--	0.14 U	0.13 U	0.14 U	0.1 U	0.3 U	0.11 U	0.13 U	0.13 U	0.15 U	0.14 U
Cyclohexane	20857	0.1 J	0.20 J	0.62 U	1.6	1 U	0.100 J	0.16 J	0.55 U	0.65 U	0.62 U
Dichlorodifluoromethane	347.6	2.6	2.1	2	2.1	2.2	2.2	2.2	1.9	1.9	1.7
Ethanol	--	1.7	6	14	41	9	10	40	23	12	12
Ethylbenzene	37.44	0.16	0.19	0.17	1.2	0.4	0.29	0.42	0.19	0.16 U	0.28
Freon 114	--	0.74 U	0.65 U	0.74 U	0.61 U	2 U	0.57 U	0.70 U	0.65 U	0.78 U	0.74 U
Isopropanol	695.2	1.0 J	0.91 J	1.0 J	6.9	5 U	2 U	2.1 U	3.2	2.3 U	2 U
Isopropylbenzene	1390	0.88 U	0.79 U	0.88 U	0.42 J	2 U	0.17 J	0.41 J	0.79 U	0.93 U	0.88 U
m/p-Xylene	347.6	0.43	0.56	0.4	3.4	1.4	0.96	1.3	0.56	0.38	0.9
Methyl t-butyl ether (MTBE)	360.0	0.65 U	0.010 J	0.65 U	0.54 U	1 U	0.50 U	0.61 U	0.58 U	0.69 U	0.65 U
Methylene chloride	2086	1.2 U	6.3	10	4.5	3 U	0.97 U	1.2 U	1.1 U	1.3 U	1.3 U
Naphthalene	2.753	4.6 U	4 U	4.6 U	4.0 U	10 U	4 U	4.4 U	4 U	4.9 U	5 U
n-Heptane	--	0.8	0.31 J	0.15 J	2.3	0.45 J	0.25 J	0.57 J	0.66 U	0.78 U	0.74 U
n-Hexane	2433	0.85	0.49 J	0.3 J	1.8	1 J	0.53	1	0.56 U	0.67 U	0.67
n-Nonane	69.52	4.6 U	4 U	4.6 U	4.0 U	10 U	4 U	4.4 U	4 U	4.9 U	5 U
n-Propylbenzene	3476	0.88 U	0.79 U	0.88 U	0.32 J	2 U	0.13 J	0.84 U	0.79 U	0.93 U	0.88 U

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #24	Property #26	Property #26	Property #28	Property #28	Property #28	Property #28	Property #29	Property #29	Property #30
		Sample 2	Sample 1	Sample 2	Sample 1	Sample 2	Duplicate of Sample 2	Sample 3	Sample 1	Sample 2	Sample 1
Lab Sample No. Sampling Date		1009104A-02A 9/2/2010	1006585A-07A 6/15/2010	1006585A-08A 6/15/2010	1005570R1-01A 5/20/2010	1005570R1-05A 5/20/2010	1005570R1-06A 5/20/2010	1005570R1-02A 5/20/2010	1006051A-01A 5/27/2010	1006051A-06A 5/27/2010	1006051A-04A 6/23/2010
p-Ethyltoluene	--	0.27 J	0.21 J	0.2 J	1	0.40 J	0.30 J	0.44 J	0.79 U	0.93 U	0.88 U
Propylene	10429	1.5	1 U	1.5 U	1.3 U	3 U	1 U	1.4 U	1 U	1.6 U	2 U
Styrene	3476	0.26 J	1	0.98	1.4	2 U	0.24 J	0.27 J	0.68 U	0.81 U	0.77 U
tert-Butylalcohol	--	0.85 J	10 U	11 U	9 U	20 U	8.5 U	10 U	10 U	11 U	11 U
Tetrachloroethene	139.05	0.24	2.8	2.2	0.64	0.5 U	0.17 J	0.3	0.22 U	0.25 U	0.24 U
Tetrahydrofuran	6952	0.6 J	2 U	2.6 U	2.2 U	6 U	NA	2.5 U	2 U	2.8 U	3 U
Toluene	17381	0.72	1.6	1.8	13	2.6	1.8	2.4	0.94	0.6	1.6
trans-1,2-Dichloroethene	--	0.71 U	0.63 U	0.71 U	0.034 J	2 U	0.56 U	0.67 U	0.63 U	0.75 U	0.71 U
Trichloroethene	6.952	1.7	4.5	0.18 J	0.15 J	0.15 J	0.15 J	0.086 J	0.17 U	0.20 U	0.51
Trichlorofluoromethane	--	2.1	1	1.1	1.3	2 J	1.6	1.5	1	1.4	2.4
Vinyl chloride	5.586	0.014 J	0.043	0.046 U	0.038 U	0.1 U	0.036 U	0.043 U	0.041 U	0.049 U	0.046

Notes:

All units in ug/m³.

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #30	Property #30	Property #32	Property #33	Property #33	Property #34	Property #34	Property #35	Property #40	Property #40
		Sample 2	Duplicate of Sample 2	Sample 1	Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 1	Sample 2
Lab Sample No. Sampling Date		1006051A-05A 6/23/2010	1006051A-07A 6/23/2010	1006476A-08A 6/9/2010	1009126-02A 9/2/2010	1009126-03A 9/2/2010	1006527A-03A 6/16/2010	1006527A-04A 6/16/2010	1005570R1-03A 5/20/2010	1006476A-07A 6/9/2010	1006476A-06A 6/9/2010
1,1,1-Trichloroethane	17381	0.17 U	0.20 U	0.038 J	0.04 J	0.043 J	15	2.3	1.7	0.23	0.22
1,1,2-Tetrachloroethane	1.614	0.22 U	0.25 U	0.22 U	0.11 J	0.22 U	0.22 U	0.21 U	0.24 U	0.20 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	104286	1.2 U	1.4 U	0.41 J	0.7 J	0.65 J	0.62 J	0.84 J	1.1 J	0.4 J	0.48 J
1,1-Dichloroethane	58.49	0.13 U	0.15 U	0.13 U	0.13 U	0.13 U	0.4	0.089 J	0.14 U	0.12 U	0.1 U
1,1-Dichloroethene	695.2	0.19 U	0.21 U	0.19 U	0.19 U	0.19 U	0.44	0.21 U	0.17 U	0.17 U	0.18 U
1,2,4-Trimethylbenzene	695.2	0.79 U	0.88 U	0.79 U	0.59 J	0.22 J	0.79	0.79 U	0.88 U	0.74 U	0.74 U
1,2-Dichlorobenzene	3.600	0.96 U	1.1 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	1.1 U	0.90 U	0.90 U
1,2-Dichloroethane	9.359	0.13 U	0.15 U	0.040 J	0.073 J	0.053 J	0.061 J	0.45	0.025 J	0.028 J	0.053 J
1,2-Dichloropropane	--	0.74 U	0.83 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.83 U	0.69 U	0.69 U
1,2-Dimethylbenzene	24.33	0.14 U	0.18	0.17	0.48	0.13 J	0.38	0.15	0.078 J	0.048 J	0.13 J
1,3,5-Trimethylbenzene	--	0.79 U	0.88 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.88 U	0.74 U	0.74 U
1,3-Butadiene	3.120	0.35 U	0.40 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.40 U	0.33 U	0.33 U
1,3-Dichlorobenzene	--	0.96 U	1.1 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	1.1 U	0.90 U	0.90 U
1,4-Dichlorobenzene	8.508	0.96 U	1.1 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.31 J	0.90 U	0.90 U
1,4-Dioxane	18.72	0.58 U	0.65 U	0.58 U	1.5	0.58 U	0.58 U	0.54 J	0.65 U	0.2 J	0.3 J
2,2,4-Trimethylpentane	--	3.7 U	4 U	4 U	4 U	4 U	0.9 J	3.6 U	4.1 U	0.20 J	3.6 U
2-Butanone	17381	1.2	2.2	3.5	3.2	3.8	5	1.6	3	0.6	3.2
2-Hexanone	104.3	3.2 U	4 U	0.49 J	0.45 J	0.49 J	3.2 U	3.2 U	0.70 J	3.0 U	3.1 U
4-Methyl-2-pentanone	10429	0.66 U	0.74 U	0.22 J	0.34 J	0.66 U	0.66 U	0.66 U	0.20 J	0.61 U	0.2 J
Acetone	107762	16	23	23	36	59	20	26	13	5.5	29
Acetonitrile	208.6	1.3 U	2 U	1 U	1 U	1 U	1.3 U	1	1.5 U	1.2 U	1.3 U
Benzene	12.00	0.25 U	0.3 U	2	2.4	3.8	1.4	0.3	0.11 J	0.35	0.25
Benzyl chloride	1.910	0.83 U	0.93 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.93 U	0.78 U	0.78 U
Bromodichloromethane	2.529	1.1 U	1.2 U	1.1 U	0.30 J	1.1 U	1.1 U	1.1 U	1.2 U	1.0 U	1.0 U
Bromomethane	17.38	0.82	0.82	0.7	0.62 U	0.62 U	0.8	0.85	0.93	0.62	0.82
Carbon disulfide	2433	2.5 U	3 U	0.81 J	3	0.34 J	14	3.1	2.7 U	2 J	5.9
Carbon tetrachloride	15.60	1.0 U	1.1 U	0.3 J	0.30 J	0.52 J	0.18 J	0.18 J	0.34 J	0.18 J	0.16 J
Chloroethane	34762	0.42 U	0.47 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.47 U	0.40 U	0.40 U
Chloroform	4.069	0.88	0.93	0.16 J	30	2.8	1.7	0.54 J	1	2.2	1.5
Chloromethane	312.9	0.33 U	0.37 U	0.20 J	0.5	0.37	0.33 U	0.5	0.37 U	0.27 J	0.2 J
cis-1,2-Dichloroethene	--	0.13 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U	0.12 U	0.023 J	0.11 U	0.1 U
Cyclohexane	20857	0.55 U	0.62 U	0.55 U	0.3 J	0.15 J	1.7	0.55 U	0.62 U	0.52 U	0.52 U
Dichlorodifluoromethane	347.6	1.9	2	2	2.5	2.4	2	2	2.2	2	2.1
Ethanol	--	5.1	7	12	3.4	1.6	24	19	2.8	1.8	11
Ethylbenzene	37.44	0.14 U	0.2	0.18	0.33	0.091 J	3.6	0.14	0.091 J	0.065 J	0.15
Freon 114	--	0.65 U	0.74 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.74 U	0.61 U	0.61 U
Isopropanol	695.2	1.9 U	2 U	1.7 J	1.6 J	1.2 J	0.84 J	1.5 J	2.2 U	0.42 J	1.3 J
Isopropylbenzene	1390	0.79 U	0.88 U	0.16 J	11	0.14 J	0.22 J	0.79 U	0.88 U	0.59 J	0.74 U
m/p-Xylene	347.6	0.33	0.52	0.4	1.1	0.3 J	6.9	0.32	0.27 J	0.13 J	0.27
Methyl t-butyl ether (MTBE)	360.0	0.58 U	0.65 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.65 U	0.0083 J	0.012 J
Methylene chloride	2086	1.1 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U J	1.1 U J	1.2 U	1.0 U	1 U
Naphthalene	2.753	4.1 U	5 U	4 U	4 U	4 U	4.1 U	4.1 U	1.8 J	3.8 U	4.0 U
n-Heptane	--	0.66 U	0.74 U	0.13 J	0.53 J	0.33 J	1.3	0.66 U	0.74 U	0.21 J	0.17 J
n-Hexane	2433	0.56 U	0.63 U	0.31 J	0.92	0.46 J	0.6	0.19 J	0.2 J	0.31 J	0.22 J
n-Nonane	69.52	4.1 U	5 U	4 U	4 U	4 U	4.1 U	4.1 U	4.6 U	3.8 U	4.0 U
n-Propylbenzene	3476	0.79 U	0.88 U	0.79 U	0.18 J	0.79 U	0.37 J	0.79 U	0.88 U	0.74 U	0.74 U

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #30	Property #30	Property #32	Property #33	Property #33	Property #34	Property #34	Property #35	Property #40	Property #40
		Sample 2	Duplicate of Sample 2	Sample 1	Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 1	Sample 2
Lab Sample No. Sampling Date		1006051A-05A 6/23/2010	1006051A-07A 6/23/2010	1006476A-08A 6/9/2010	1009126-02A 9/2/2010	1009126-03A 9/2/2010	1006527A-03A 6/16/2010	1006527A-04A 6/16/2010	1005570R1-03A 5/20/2010	1006476A-07A 6/9/2010	1006476A-06A 6/9/2010
p-Ethyltoluene	--	0.79 U	0.88 U	0.79 U	0.3 J	0.79 U	0.84	0.19 J	0.88 U	0.74 U	0.17 J
Propylene	10429	1.4 U	2 U	1 U	1 U	1 U	2.6	1.3 U	1.5 U	1.3 U	1.5
Styrene	3476	0.68 U	0.77 U	0.1 J	0.72	0.68 U	0.17 J	0.77	0.77 U	0.64 U	0.18 J
tert-Butylalcohol	--	10 U	11 U	10 U	1.2 J	1.7 J	10 U	9.4 U	11 U	8.8 U	9 U
Tetrachloroethene	139.05	0.25	0.25	0.16 J	0.19 J	0.11 J	0.45	2.2	0.24 U	0.2	0.29
Tetrahydrofuran	6952	2.3 U	3 U	2 U	0.94 J	0.41 J	2.3 U	2.3 U	2.6 U	2.2 U	2.2 U
Toluene	17381	0.64	1	1.3	1.7	0.45	1.5	2	0.4	0.2	0.8
trans-1,2-Dichloroethene	--	0.63 U	0.71 U	0.63 U	0.67	1.1	0.63 U	0.63 U	0.71 U	0.59 U	0.59 U
Trichloroethene	6.952	0.81	0.86	0.070 J	0.17 U	0.17 U	0.028 J	1.3	0.034 J	0.034 J	0.03 J
Trichlorofluoromethane	--	1.5	1.4	1	1.5	1.5	1.5	2	2.4	1.2	1.5
Vinyl chloride	5.586	0.041 U	0.046 U	0.041 U	0.015 J	0.041 U	0.041 U	0.072	0.046 U	0.038 U	0.038 U

Notes:

All units in ug/m³.

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #41	Property #41	Property #44	Property #44	Property #45	Property #46	Property #46	Property #47	Property #47	
		Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	
Lab Sample No. Sampling Date		1006585B-11A 6/15/2010	1006585B-14A 6/15/2010	1007428A-10A 7/13/2010	1007428B-11A 7/13/2010	1007428B-12A 7/13/2010	1007428B-13A 7/13/2010	1007428B-14A 7/13/2010	1007428B-15A 7/13/2010	1007428A-02A 7/13/2010	1007428A-03A 7/13/2010
1,1,1-Trichloroethane	17381	1.2	0.87	0.65	0.10 J	0.6	0.76	0.076 J	0.065 J	0.5	0.5
1,1,2-Tetrachloroethane	1.614	0.22 U	0.22 U	0.23 U	0.23 U	0.22 U	0.3 U	0.19 U	0.23 U	0.22 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	104286	0.64 J	0.62 J	1.1 J	0.61 J	4.9	1.3 J	0.54 J	1.6	0.84 J	0.54 J
1,1-Dichloroethane	58.49	0.12 J	0.13 U	0.14 U	0.14 U	0.13 U	0.017 J	0.11 U	0.14 U	0.026 J	0.1 U
1,1-Dichloroethene	695.2	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U	0.044 J	0.2 U	0.033 J	0.18 U J
1,2,4-Trimethylbenzene	695.2	0.79 U	0.79 U	1	0.84 U	0.79 U	1.0 U	0.33 J	0.84 U	0.79 U	0.74 U
1,2-Dichlorobenzene	3.600	0.96 U	0.96 U	1.0 U	1.0 U	0.96 U	1 U	0.25 J	1.0 U	0.96 U	0.90 U
1,2-Dichloroethane	9.359	0.17	0.19	0.065 J	0.061 J	0.11 J	0.37	0.73	0.16	0.13	0.085 J
1,2-Dichloropropane	--	0.74 U	0.74 U	0.79 U	0.79 U	0.74 U	0.39 J	0.65 U	0.79 U	0.74 U	0.69 U
1,2-Dimethylbenzene	24.33	0.04 J	0.1 J	0.61	0.078 J	0.083 J	0.100 J	0.39	0.096 J	0.19	0.14
1,3,5-Trimethylbenzene	--	0.79 U	0.79 U	0.64 J	0.84 U	0.79 U	1.0 U	0.69 U	0.84 U	0.79 U	0.74 U
1,3-Butadiene	3.120	0.35 U	0.35 U	0.38 U	0.38 U	0.35 U	0.4 U	0.31 U	0.38 U	0.35 U	0.33 U
1,3-Dichlorobenzene	--	0.96 U	0.96 U	1.0 U	1.0 U	0.96 U	1 U	0.84 U	1.0 U	0.96 U	0.90 U
1,4-Dichlorobenzene	8.508	0.96 U	0.23 J	1.0 U	1.0 U	0.96 U	1 U	0.14 J	1.0 U	0.35 J	0.49 J
1,4-Dioxane	18.72	0.58 U	0.58 U	0.61 U	0.7	0.58 U	0.7 U	1	0.61 U	0.58 U	0.54 U
2,2,4-Trimethylpentane	--	4 U	3.7 U	3.9 U	3.9 U	4 U	0.9 J	0.5 J	3.9 U	3.7 U	3.5 U
2-Butanone	17381	0.97	1.4	3.2	1	1.9	1.4	3.5	2.2	2.4	3
2-Hexanone	104.3	3 U	3.2 U	0.34 J	3.4 U	3 U	4 U	2.8 U	3.4 U	3.2 U	0.49 J
4-Methyl-2-pentanone	10429	0.66 U	0.66 U	0.24 J	0.70 U	0.17 J	0.8 U	0.57	0.70 U	0.66 U	0.45 J
Acetone	107762	9.3	9.3	22	10	10	8.3	38	13	38	21
Acetonitrile	208.6	1 U	1.3 U	1.4 U J	1.4 U J	1 U J	2 U J	1.1 U J	1.4 U J	1.3 U	1.2 U
Benzene	12.00	1.9	1.2	1.3	0.54	0.38	1.5	2	0.20 J	2	0.21 J
Benzyl chloride	1.910	0.83 U	0.83 U	0.88 U	0.88 U	0.83 U	1 U	0.72 U	0.88 U	0.83 U	0.78 U
Bromodichloromethane	2.529	2.5	1.1 U	1.1 U	1.1 U	1.1 U	1 U	0.94 U	1.1 U	1.1 U	1.0 U
Bromomethane	17.38	0.62	0.30 J	0.66 U	0.66 U J	0.62 U	0.8 U J	0.54 U J	0.66 U J	0.62 U	0.58 U
Carbon disulfide	2433	0.90 J	3.4	3.7	21	2.4 J	1.9 J	6.5	0.75 J	1.4 J	2.2 J
Carbon tetrachloride	15.60	0.38 J	0.1 J	0.23 J	0.27 J	0.13 J	1 U	0.3 J	0.34 J	0.32 J	0.25 J
Chloroethane	34762	0.42 U	0.42 U	0.45 U	0.45 U	0.42 U	NA	0.21 J	0.45 U	0.12 J	0.40 U
Chloroform	4.069	98	1.2	0.83 U	0.14 J	0.78 U	0.44 J	0.32 J	0.83 U	0.78 U	0.73 U
Chloromethane	312.9	0.33 U	0.29 J	0.35	0.27 J	0.4	0.27 J	1.3	0.29 J	0.85	0.76
cis-1,2-Dichloroethene	--	0.13 U	0.2 U	0.11 U	0.13 U	0.13 U	0.1 U				
Cyclohexane	20857	0.55 U	0.18 J	0.3 J	0.59 U	0.55 U	0.7 U	0.20 J	0.59 U	0.55 U	0.52 U
Dichlorodifluoromethane	347.6	2.1	2.1	2.6	2.1	3	2.3	2.2	2.4	2.1	2.1
Ethanol	--	12	11	4.9	3.2	3.4	5.5	18	6.6	19	21
Ethylbenzene	37.44	0.09 J	0.2	0.33	0.074 J	0.09 J	0.1 J	0.48	0.12 J	0.21	0.17
Freon 114	--	0.65 U	0.65 U	4	0.70 U	5.3	0.53 J	0.57 U	0.98	0.2 J	0.61 U
Isopropanol	695.2	0.96 J	1.0 J	1.0 J	0.57 J	0.86 J	0.69 J	8.4	0.81 J	12	3.7
Isopropylbenzene	1390	0.79 U	0.79 U	0.17 J	1	0.79 U	0.19 J	0.37 J	0.84 U	8.8	0.74 U
m/p-Xylene	347.6	0.14 J	0.33	1.6	0.18 J	0.19 J	0.25 J	1	0.12 J	0.48	0.36
Methyl t-butyl ether (MTBE)	360.0	0.03 J	0.094 J	0.61 U	0.61 U	0.58 U	0.7 U	0.50 U	0.61 U	0.58 U	0.54 U
Methylene chloride	2086	1.1 U J	1.1 U J	1.1 J	1.2 U	1.1 U	1 U	1.5	0.63 J	3.8 J	1 U J
Naphthalene	2.753	4 U	4.1 U	4.4 U	4.4 U	4 U	5 U	3.6	4.4 U	4.1 U	3.9 U
n-Heptane	--	0.66 U	0.19 J	2.4	0.17 J	0.4 J	1.2	1.8	0.35 J	0.78	0.4 J
n-Hexane	2433	0.27 J	0.42 J	2.5	0.29 J	0.56	1.2	0.85	0.42 J	0.85	0.24 J
n-Nonane	69.52	4 U	4.1 U	4.4 U	4.4 U	4 U	5 U	3.6 U	4.4 U	4.1 U	3.9 U
n-Propylbenzene	3476	0.79 U	0.79 U	0.84 U	0.84 U	0.79 U	1.0 U	0.69 U	0.84 U	0.79 U	0.74 U

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #41	Property #41	Property #44	Property #44	Property #45	Property #46	Property #46	Property #47	Property #47	
		Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	
Lab Sample No. Sampling Date		1006585B-11A 6/15/2010	1006585B-14A 6/15/2010	1007428A-10A 7/13/2010	1007428B-11A 7/13/2010	1007428B-12A 7/13/2010	1007428B-13A 7/13/2010	1007428B-14A 7/13/2010	1007428B-15A 7/13/2010	1007428A-02A 7/13/2010	1007428A-03A 7/13/2010
p-Ethyltoluene	--	0.79 U	0.19 J	0.39 J	0.84 U	0.79 U	1.0 U	0.21 J	0.84 U	0.79 U	0.74 U
Propylene	10429	1 U	1.4 U	1.4 U	1.4 U	1 U	2 U	1.2 U	1.4 U	1.4 U	1.3 U
Styrene	3476	0.68 U	0.30 J	1.4	0.32 J	0.77	0.42 J	0.89	0.72 U	0.89	0.72
tert-Butylalcohol	--	10 U	8.2 U	10 U	5.8 J	9 U					
Tetrachloroethene	139.05	3.1	0.81	0.95	0.18 J	0.81	0.95	0.3	0.23 U	0.5	0.2 U
Tetrahydrofuran	6952	2 U	2.3 U	2.5 U	2.5 U	2 U	3 U	0.35 J	2.5 U	2.3 U	2.2 U
Toluene	17381	1.2	2	1.7	0.34	0.33	1.2	2.7	0.45	0.8	0.87
trans-1,2-Dichloroethene	--	0.63 U	0.63 U	0.67 U	0.67 U	0.63 U	0.8 U	0.56 U	0.67 U	0.63 U	0.59 U
Trichloroethene	6.952	0.075 J	0.17 U	0.019 J	0.018 J	0.02 J	0.48	0.03 J	0.18 U	0.24	0.070 J
Trichlorofluoromethane	--	1	1.4	1.4	1	12	2.4	1.1	3.5	4.8	3.8
Vinyl chloride	5.586	0.036 J	0.041 U	0.043 U	0.043 U	0.041 U	0.05 U	0.011 J	0.024 J	0.041 U	0.038 U

Notes:

All units in ug/m³.

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #47	Property #47	Property #47	Property #47	Property #47	Property #47	Property #47
		Duplicate of Sample 2 1007428A-09A 7/13/2010	Sample 3 1007428A-04A 7/13/2010	Sample 4 1007428A-05A 7/13/2010	Sample 5 1007428A-06A 7/13/2010	Sample 6 1007428C-07A 7/13/2010	Duplicate of Sample 6 1008289A-01A 7/13/2010	Sample 7 1007428A-08A 7/13/2010
1,1,1-Trichloroethane	17381	0.5	0.10 J	0.071 J	0.32	0.14 J	0.14 J	0.37
1,1,2,2-Tetrachloroethane	1.614	0.19 U	0.25 U	0.19 U	0.22 U	0.24 U	0.23 U	0.22 U
1,1,2-Trichloro-1,2,2-trifluoroethane	104286	0.60 J	0.48 J	0.47 J	0.51 J	0.51 J	0.57 J	0.48 J
1,1-Dichloroethane	58.49	0.11 U	0.15 U	0.11 U	0.13 U	0.14 U	0.14 U	0.13 U
1,1-Dichloroethene	695.2	0.17 U	0.22 U J	0.17 U J	0.19 U	0.21 U J	0.2 U	0.19 U
1,2,4-Trimethylbenzene	695.2	0.69 U	0.93 U	0.69 U	0.79 U	0.88 U	2.3	0.79 U
1,2-Dichlorobenzene	3.600	0.84 U	1.1 U	0.84 U	0.96 U	1.1 U	1.0 U	0.96 U
1,2-Dichloroethane	9.359	0.065 J	0.08 J	0.085 J	0.08 J	0.036 J	0.14 U	0.093 J
1,2-Dichloropropane	--	0.65 U	0.88 U	0.65 U	0.74 U	0.83 U	0.79 U	0.74 U
1,2-Dimethylbenzene	24.33	0.10 J	0.14 J	0.17	0.14	0.13 J	0.065 J	0.2
1,3,5-Trimethylbenzene	--	0.69 U	0.93 U	0.69 U	0.2 J	0.88 U	0.43 J	0.79 U
1,3-Butadiene	3.120	0.31 U	0.42 U	0.31 U	0.35 U	0.40 U	0.38 U	0.35 U
1,3-Dichlorobenzene	--	0.84 U	1.1 U	0.84 U	0.96 U	1.1 U	1.0 U	0.96 U
1,4-Dichlorobenzene	8.508	0.4 J	0.50 J	0.38 J	0.37 J	1.1 U	1.0 U	0.58 J
1,4-Dioxane	18.72	0.23 J	0.68 U	0.50 U	0.58 U	0.40 J	0.61 U	0.47 J
2,2,4-Trimethylpentane	--	3 U	4.4 U	3 U	0.13 J	4.1 U	3.9 U	3.7 U
2-Butanone	17381	3.5	3.2	1.9	3.5	1.4	3	3.5
2-Hexanone	104.3	0.61 J	0.36 J	3 U	0.3 J	3.6 U	0.4 J	0.49 J
4-Methyl-2-pentanone	10429	0.45 J	0.35 J	0.86	1.4	0.74 U	0.23 J	0.20 J
Acetone	107762	24	24	31	15	55	20	29
Acetonitrile	208.6	1 U J	1.6 U	1 U	1.3 U J	1.5 U	1.4 U	1.3 U J
Benzene	12.00	0.23	0.22 J	5.1	0.38	0.19 J	0.18 J	0.3
Benzyl chloride	1.910	0.72 U	0.98 U	0.72 U	0.83 U	0.93 U	0.21 J	0.83 U
Bromodichloromethane	2.529	0.94 U	1.3 U	0.94 U	1.1 U	1.2 U	1.1 U	1.1 U
Bromomethane	17.38	0.54 U	0.74 U	0.54 U	0.62 U J	0.70 U	0.66 U	0.62 U
Carbon disulfide	2433	2.6	0.90 J	1.2 J	4	5.6	3.4	1.8 J
Carbon tetrachloride	15.60	0.27 J	0.4 J	0.4 J	0.26 J	0.41 J	0.48 J	0.32 J
Chloroethane	34762	0.37 U	0.50 U	0.19 J	0.42 U	0.47 U	0.45 U	0.32 J
Chloroform	4.069	0.68 U	0.93 U	0.68 U	0.19 J	0.88 U	0.83 U	0.78 U
Chloromethane	312.9	0.64	0.58	1.2	0.56	0.29 J	0.4	1.1
cis-1,2-Dichloroethene	--	0.11 U	0.15 U	0.11 U	0.13 U	0.14 U	0.13 U	0.13 U
Cyclohexane	20857	0.48 U	0.65 U	0.48 U	0.55 U	0.62 U	0.59 U	0.55 U
Dichlorodifluoromethane	347.6	2	2.1	2.3	2	2	2.1	2.1
Ethanol	--	28	38	57	11	4	4	73
Ethylbenzene	37.44	0.11 J	0.17	0.17	0.13 J	0.069 J	0.17	0.18
Freon 114	--	0.57 U	0.78 U	0.57 U	0.65 U	0.74 U	0.70 U	0.65 U
Isopropanol	695.2	3.2	2.1 J	3.9	1.1 J	0.61 J	0.69 J	2.4
Isopropylbenzene	1390	0.69 U	0.93 U	2.8	0.79 U	0.88 U	0.84 U	0.79 U
m/p-Xylene	347.6	0.25	0.37	0.4	0.32	0.1 J	0.61	0.48
Methyl t-butyl ether (MTBE)	360.0	0.50 U	0.69 U	0.50 U	0.013 J	0.65 U	0.61 U	0.58 U
Methylene chloride	2086	0.97	1.3 U J	0.80 J	1.3	2.3 J	1.2 U	1.1
Naphthalene	2.753	4 U	4.9 U	4 U	4.1 U	4.6 U	6.3	4.1 U
n-Heptane	--	0.32 J	0.30 J	0.36 J	0.38 J	0.74 U	0.29 J	0.20 J
n-Hexane	2433	0.19 J	0.25 J	0.32 J	0.30 J	0.16 J	0.32 J	0.21 J
n-Nonane	69.52	4 U	4.9 U	4 U	4.1 U	4.6 U	4.4 U	4.1 U
n-Propylbenzene	3476	0.69 U	0.93 U	0.69 U	0.79 U	0.88 U	0.1 J	0.79 U

TABLE 4-2A
Detected Constituents in Vapor Intrusion Soil Gas Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Soil Gas Concentration	Property #47	Property #47	Property #47	Property #47	Property #47	Property #47	Property #47
		Duplicate of Sample 2 1007428A-09A 7/13/2010	Sample 3 1007428A-04A 7/13/2010	Sample 4 1007428A-05A 7/13/2010	Sample 5 1007428A-06A 7/13/2010	Sample 6 1007428C-07A 7/13/2010	Duplicate of Sample 6 1008289A-01A 7/13/2010	Sample 7 1007428A-08A 7/13/2010
p-Ethyltoluene	--	0.69 U	0.93 U	0.1 J	0.79 U	0.88 U	0.69 J	0.79 U
Propylene	10429	1 U	1.6 U	1 U	1.4 U	1.5 U	1.4 U	1.4 U
Styrene	3476	0.77	0.64 J	0.37 J	0.35 J	0.77 U	0.72 U	0.14 J
tert-Butylalcohol	--	8.5 U	11 U	8.5 U	10 U	11 U	10 U	10 U
Tetrachloroethene	139.05	0.19 U	0.25 U	0.19 U	0.22 U	0.24 U	0.088 J	0.26
Tetrahydrofuran	6952	2 U	2.8 U	2 U	2.3 U	2.6 U	2.5 U	2.3 U
Toluene	17381	0.68	0.8	0.9	1.1	0.2	0.18	2.4
trans-1,2-Dichloroethene	--	0.56 U	0.75 U	0.56 U	0.63 U	0.71 U	0.67 U	0.63 U
Trichloroethene	6.952	0.015 J	0.018 J	0.039 J	0.053 J	0.081 J	0.1 J	0.024 J
Trichlorofluoromethane	--	3.7	6.7	6	8.4	3	4	6
Vinyl chloride	5.586	0.036 U	0.049 U	0.036 U	0.015 J	0.046 U	0.043 U	0.041 U

Notes:

All units in ug/m³.

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2B
Detected Constituents in Vapor Intrusion Ambient Air Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Lab Sample No. Sampling Date	Target Indoor Air Concentration	Property #8 1008319-05B 8/11/2010	Property #9 1006476A-03B 6/9/2010	Property #10 1006476B-12B 6/9/2010	Property #11 1009104A-07B 9/2/2010	Property #12 1006051A-08B 5/27/2010	Property #13 1006585A-05B 6/15/2010	Property #14 1006585A-09B 6/15/2010	Property #16 1101210-04A 1/13/2011
1,1,1-Trichloroethane	521.4	0.031 J	0.034 J	0.033 J	0.076 J	0.19 U	0.039 J	0.028 J	0.035 J
1,1,2-Trichloro-1,2,2-trifluoroethane	3129	0.67 J	0.74 J	0.48 J	0.84 J	2.6	0.32 J	0.59 J	0.44 J
1,1-Dichloroethene	20.86	0.23 U	0.19 U	0.17 U	0.019 J	0.20 U	0.19 U	0.19 U	0.2 U
1,2,4-Trimethylbenzene	0.730	0.93 U	0.79 U	0.69 U	0.26 J	0.84 U	0.79 U	0.79 U	0.64 U
1,2-Dichloroethane	0.108	0.053 J	0.08 J	0.065 J	0.077 J	0.14 U	0.065 J	0.069 J	0.045 J
1,2-Dimethylbenzene	--	0.083 J	0.061 J	0.078 J	0.13 J	0.43	0.069 J	0.048 J	0.048 J
1,4-Dioxane	0.5615	0.68 U	0.58 U	0.50 U	0.65 U	1.5	0.58 U	0.58 U	0.47 U
2,2,4-Trimethylpentane	--	0.79 J	3.7 U	3.4 U	0.40 J	4.0 U	4 U	4 U	3.1 U
2-Butanone	521.4	1.9 J	1.1	2.9	4.7	1.7	1	0.47	0.47
2-Hexanone	3.129	3.9 U J	3.2 U	2.9 U	0.94 J	3.5 U	3 U	3 U	2.7 U
4-Methyl-2-pentanone	312.9	0.78 U	0.11 J	0.15 J	0.74 U	0.70 U	0.66 U	0.66 U	0.53 U
Acetone	3233	29	12	22	23	14	8.3	7.8	3.1
Acrolein	0.0021	NA	NA	NA	NA	13 JN	NA	NA	NA
Benzene	0.3600	0.3 J	0.31	0.24	0.51	0.38	0.22 J	0.22 J	0.48
Bromomethane	0.5214	0.74 U	0.62 J	0.43 J	0.70 U	1.2	0.58 J	0.8	0.50 U
Carbon disulfide	73.00	3.0 U	2.5 U	2.2 U	3 U	2.7 U	2 U	2.2 J	2.1 U
Carbon tetrachloride	0.4679	0.39 J	0.3 J	0.3 J	0.33 J	1.1 U	0.30 J	0.45 J	0.36 J
Chloromethane	9.386	0.93	0.95	0.85	0.95	1.7	0.87	0.97	1.2
Cyclohexane	625.7	0.65 U	0.55 U	0.48 U	0.14 J	0.59 U	0.55 U	0.55 U	0.45 U
Dichlorodifluoromethane	10.43	2	2.1	2	2	1.9	1.9	2.1	2.1
Ethanol	--	4	3.6	5.3	5.3	3.4	1.8	2.6	1.2 J
Ethylbenzene	1.123	0.083 J	0.09 J	0.078 J	0.13 J	0.52	0.083 J	0.078 J	0.056 J
Isopropanol	20.86	0.64 J	0.44 J	1.1 J	0.86 J	2.1 U	0.34 J	0.24 J	1.6 U
m/p-Xylene	10.43	0.16 J	0.2 J	0.14 J	0.36	1.3	0.18 J	0.15 J	0.14 J
Methylene chloride	62.57	1.3 U	1.1 U	1.0 U	1.3 U	1.2 U	1.1 U	1.1 U	0.30 J
n-Heptane	--	0.30 J	0.66 U	0.19 J	0.3 J	0.70 U	0.66 U	0.66 U	0.53 U
n-Hexane	73.00	0.4 J	0.16 J	0.3 J	0.42 J	0.6	0.12 J	0.56 U	0.26 J
Propylene	312.9	1.7 U	1.4 U	1.2 U	1.2 J	1.5 U	1 U	1 U	1.2 U
tert-Butylalcohol	--	12 U	10 U	8.8 U	0.94 J	10 U	10 U	10 U	8.2 U
Tetrachloroethene	4.171	0.26 U	0.37	0.39	0.12 J	0.23 U	0.22 U	0.22 U	0.030 J
Toluene	521.4	0.45	0.41	0.4	0.68	0.4	0.57	0.53	0.35
Trichloroethene	0.2086	0.20 U	0.081 J	0.023 J	0.19 U	0.18 U	0.03 J	0.17 U	0.15 U
Trichlorofluoromethane	--	1.2	1.1	0.96	1.2	1.2	1	1	1
Vinyl chloride	0.1676	0.049 U	0.041 U	0.036 U	0.020 J	0.1	0.041 U	0.041 U	0.033 U

Notes:

All units in ug/m3.

J - Estimated

NA - Not analyzed

N - Presumptive evidence for the presence of the compound exists

U - Not detected at Method Detection Limit (MDL) provided

-- - No criteria

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

Yellow shading and bold denotes value greater than target concentration.

TABLE 4-2C
Detected Constituents in Vapor Intrusion Indoor Air Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Indoor Air Concentration	Property #8	Property #8	Property #9	Property #9	Property #10	Property #10	Property #11	Property #11	Property #11
		Sample 1	Sample 2	Duplicate of Sample 2						
Lab Sample No. Sampling Date		1008319-03B 8/11/2010	1008319-04B 8/11/2010	1006476A-02B 6/9/2010	1006476A-05B 6/9/2010	1006476A-10B 6/9/2010	1006476A-09B 6/9/2010	1009104A-06B 9/2/2010	1009104A-08B 9/2/2010	1009104A-09B 9/2/2010
1,1,1-Trichloroethane	521.4	1.3	0.05 J	0.39	0.28	0.26	0.047 J	0.060 J	0.044 J	0.065 J
1,1,2-Trichloro-1,2,2-trifluoroethane	3129	0.4 J	0.38 J	0.34 J	0.34 J	0.35 J	1.8 U	0.53 J	0.47 J	0.5 J
1,1-Dichloroethane	1.755	0.13 U	0.13 U	0.15 U	0.13 U	0.14 U	0.19 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	20.86	0.19 U	0.19 U	0.21 U	0.19 U	0.21 U	0.28 U	0.18 U	0.19 U	0.19 U
1,2,3-Trimethylbenzene	0.5214	6.9	4.0 U	4 U	4 U	4.3 U	5.9 U	3.8 U	4 U	4 U
1,2,4-Trimethylbenzene	0.7300	26	0.54 J	7.4	9.3	2.2	1.2 U	1.8	1.5	1.8
1,2-Dichloroethane	0.1080	0.13 U	0.53	0.077 J	0.093 J	1	2.1	4	1.3	1.3
1,2-Dimethylbenzene	--	23	0.4	4.8	6.1	1.4	0.3	0.96	0.69	0.69
1,3,5-Trimethylbenzene	--	7.4	0.79 U	1.8	2.3	0.64 J	1.2 U	0.38 J	0.33 J	0.32 J
1,3-Butadiene	0.0936	0.24 J	0.084 J	0.40 U	0.35 U	0.31 J	0.8	0.18 J	0.2 J	0.19 J
1,4-Dichlorobenzene	0.2552	0.41 J	0.96 U	1.1 U	0.96 U	0.31 J	1.4 U	0.96 U	0.96 U	0.96 U
1,4-Dioxane	0.5615	15	2	0.65 U	0.58 U	0.65 U	1	0.58 U	0.4 J	0.58 U
2,2,4-Trimethylpentane	--	38	0.75 J	3 J	5	0.4 J	5.6 U	0.34 J	0.30 J	0.33 J
2-Butanone	521.4	7.7 J	2 J	3	3	9	5.3	9	3.8	6
2-Hexanone	3.129	0.4 J	3.4 U J	4 U	3 U	3.6 U	1.4 J	1.1 J	3 U	0.94 J
4-Methyl-2-pentanone	312.9	1.7	0.17 J	0.53 J	0.57 J	0.25 J	1.3	0.78	0.61 J	0.61 J
Acetone	3233	48	23	29	29	36	38	83	50	59
Acetonitrile	6.257	1.4 U	1.6	2 U	1 U	1.5 U	2.0 U	1.3 U	1 U	1 U
Acrolein	0.0021	NA	7.3 JN	NA						
alpha-Pinene	--	27 JN	NA	NA	NA	NA	NA	72 JN	72 JN	84 JN
Benzene	0.3600	23	1	2	2.3	1.4	2.6	1.1	0.89	0.89
Bromodichloromethane	0.0759	1.1 U	1.1 U	0.12 J	0.19 J	1.2 U	1.6 U	0.15 J	1.1 U	1.1 U
Bromoform	2.552	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	2.5 U	1.7 U	0.27 J	1.7 U
Bromomethane	0.5214	0.74	0.62 U	0.74	0.47 J	0.47 J	0.50 J	0.62 U	1.7	0.62 U
Carbon disulfide	73.00	2.6 U	12	1.6 J	2 U	2.7 U	3.7 U	1.3 J	0.40 J	2 U
Carbon tetrachloride	0.4679	0.30 J	0.33 J	0.36 J	0.35 J	0.29 J	0.30 J	0.82 J	0.52 J	0.52 J
Chlorobenzene	5.214	0.74 U	0.74 U	0.83 U	0.74 U	0.83 U	1.1 U	0.74 U	0.25 J	0.74 U
Chloroethane	1043	0.42 U	0.42 U	0.47 U	0.42 U	0.47 U	0.63 U	0.40 J	0.42 U	0.42 U
Chloroform	0.1221	0.78 U	0.42 J	1.4	1.1	0.28 J	0.37 J	1.7	1.5	1.5
Chloromethane	9.386	1	0.99	0.74	0.72	0.91	1.4	1.4	3.1	1.2
cis-1,2-Dichloroethene	--	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.19 U	0.12 U	0.13 U	0.13 U
Cyclohexane	625.7	12	0.21 J	0.59 J	0.86	0.29 J	0.21 J	0.3 J	0.62	0.76
Dichlorodifluoromethane	10.43	2	2.1	3.2	2.7	2.1	1.9	2.2	2.1	2.2
Ethanol	--	98	160 E	622 E	471 E	51	140	245 E	377 E	396 E
Ethylbenzene	1.123	18	0.4	3.3	4.1	1.6	0.56	1.1	0.69	0.74
Isopropanol	20.86	5.7	2.3	5.4	6.6	14	39	5.7	3.4	3.7
Isopropylbenzene	41.71	1.5	0.79 U	0.31 J	0.38 J	0.21 J	1.2 U	0.79 U	0.79 U	0.79 U
Limonene	--	17 JN	NA	NA	NA	NA	NA	21 JN	43 JN	42 JN
m/p-Xylene	10.43	65	1.2	14	20	4	1	2.3	1.6	1.7
Methyl t-butyl ether (MTBE)	10.80	0.87	0.021 J	0.65 U	0.013 J	0.65 U	0.87 U	0.58 U	0.58 U	0.58 U
Methylene chloride	62.57	1.1 U	0.97 J	1.3 U	1.1 U	1.2 U	1.6 U	1.1 U	1.1 U	1.1 U

TABLE 4-2C
Detected Constituents in Vapor Intrusion Indoor Air Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Indoor Air Concentration	Property #8	Property #8	Property #9	Property #9	Property #10	Property #10	Property #11	Property #11	Property #11
		Sample 1	Sample 2	Duplicate of Sample 2						
Lab Sample No. Sampling Date		1008319-03B 8/11/2010	1008319-04B 8/11/2010	1006476A-02B 6/9/2010	1006476A-05B 6/9/2010	1006476A-10B 6/9/2010	1006476A-09B 6/9/2010	1009104A-06B 9/2/2010	1009104A-08B 9/2/2010	1009104A-09B 9/2/2010
Naphthalene	0.0826	4.4	4.3 U	3.6 J	3.8 J	2.3 J	6.3 U	2.5 J	3.3 J	2 J
n-Heptane	--	17	0.53 J	1.5	2.1	0.53 J	0.25 J	1.5	0.78	0.86
n-Hexane	73.00	53	1.2	2.3	3.3	1	0.39 J	0.67	0.6	0.63
n-Propylbenzene	104.3	4.5	0.79 U	1	1.3	0.33 J	1.2 U	NA	0.24 J	0.16 J
n-Undecane	--	59 JN	NA	NA	NA	19 JN	40 JN	NA	NA	NA
p-Ethyltoluene	--	19	0.39 J	5	5.9	1.3	0.28 J	0.88	0.69 J	0.69 J
Propylene	312.9	1.4 U	1.4 U	2 U	1 U	1.5 U	2.1 U	3.3	2.8	2.8
Styrene	104.3	3.2	0.68 U	0.51 J	0.55 J	0.72 J	0.51 J	1.4	1.8	1.9
tert-Butylalcohol	--	10 U	10 U	11 U	10 U	11 U	14 U	1.1 J	1.0 J	1.3 J
Tetrachloroethene	4.171	0.18 J	0.22 U	0.81	0.95	0.51	1.5	0.12 J	0.12 J	0.12 J
Tetrahydrofuran	208.6	9.4	2.4 U	3 U	2 U	1.4 J	0.71 J	0.3 J	0.32 J	0.38 J
Toluene	521.4	98	3.2	20	18	8.3	6.4	6	6.4	6.8
Trichloroethene	0.2086	0.091 J	0.031 J	0.059 J	0.041 J	0.047 J	0.034 J	0.24	0.17 U	0.17 U
Trichlorofluoromethane	--	2.5	1.1	2	1.8	1.3	1 J	1.5	1.4	1.5
Vinyl chloride	0.1676	0.041 U	0.041 U	0.046 U	0.041 U	0.018 J	0.061 U	0.014 J	0.041 U	0.041 U

Notes:

All units in ug/m3.

J - Estimated

NA - Not analyzed

N - Presumptive evidence for the presence of the compound exists

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2C
Detected Constituents in Vapor Intrusion Indoor Air Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Indoor Air Concentration	Property #12	Property #12	Property #13	Property #13	Property #14	Property #14	Property #16	Property #16
		Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 2
Lab Sample No. Sampling Date		1006051BR1-11B 5/27/2010	1006051A-03B 5/27/2010	1006585A-02B 6/15/2010	1006585A-01A 6/15/2010	1006585B-12B 6/15/2010	1006585A-04B 6/15/2010	1101210-02A 9/2/2010	1101210-05A 9/2/2010
1,1,1-Trichloroethane	521.4	0.12 J	0.19 U	0.98	0.47	0.040 J	0.031 J	0.060 J	0.051 J
1,1,2-Trichloro-1,2,2-trifluoroethane	3129	0.31 J	29	0.38 J	0.32 J	0.3 J	0.29 J	0.41 J	0.41 J
1,1-Dichloroethane	1.755	0.14 U	1.3	0.13 U	0.15 U	0.13 U	0.14 U	0.13 U	0.13 U
1,1-Dichloroethene	20.86	0.056 J	0.2 U	0.19 U	0.21 U	0.18 U	0.2 U	0.19 U	0.18 U
1,2,3-Trimethylbenzene	0.5214	4.3 U	4.1 U	7.9 U	8.8 U	7.9 U	8.4 U	4 U	3.8 U
1,2,4-Trimethylbenzene	0.7300	0.88 U	0.84 U	0.38 J	0.79 J	0.79 U	0.84 U	0.79 U	0.79 U
1,2-Dichloroethane	0.1080	0.093 J	0.14 U	0.2	4	0.21	0.08 J	0.13 U	0.13 U
1,2-Dimethylbenzene	--	0.69	0.38	0.31	0.9	0.11 J	0.15	0.078 J	0.083 J
1,3,5-Trimethylbenzene	--	0.88 U	0.84 U	0.79 U	0.88 U	0.79 U	0.84 U	0.79 U	0.79 U
1,3-Butadiene	0.0936	0.40 U	0.38 U	0.17 J	2.9	0.35 U	0.38 U	0.35 U	0.35 U
1,4-Dichlorobenzene	0.2552	1.1 U	1.0 U	0.96 U	1.1 U	0.96 U	1.0 U	0.96 U	0.96 U
1,4-Dioxane	0.5615	0.4 J	0.61 U	0.21 J	0.40 J	1.2	0.32 J	0.68	0.58 U
2,2,4-Trimethylpentane	--	4.1 U	3.9 U	0.24 J	0.2 J	3.6 U	3.9 U	4 U	3.6 U
2-Butanone	521.4	1.3	1	2.2	8.3	2	3.8	0.77	0.65
2-Hexanone	3.129	3.6 U	3.4 U	3 U	0.49 J	3.2 U	3.4 U	3 U	3.2 U
4-Methyl-2-pentanone	312.9	0.74 U	0.70 U	0.66 U	0.39 J	0.21 J	0.17 J	0.66 U	0.66 U
Acetone	3233	12	20	8.1	97	7.6	18	7.6	10
Acetonitrile	6.257	1.5 U	1.4 U	1 U	7.6	1.3 U	1.4 U	1 U	1.3 U
Acrolein	0.0021	NA	NA	NA	NA	NA	NA	NA	NA
alpha-Pinene	--	NA	NA	NA	22 JN	NA	NA	NA	NA
Benzene	0.3600	0.3	1.5	0.38	3	0.26	0.24 J	0.48	0.51
Bromodichloromethane	0.0759	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U
Bromoform	2.552	1.9 U	1.8 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U
Bromomethane	0.5214	0.8	0.66 U	0.62 J	0.54 J	0.37 J	0.62 J	0.62 U	0.62 U
Carbon disulfide	73.00	1.4 J	2.6 U	2 U	2 J	4	1.4 J	2 U	2.4 U
Carbon tetrachloride	0.4679	0.33 J	1.1 U	0.29 J	0.29 J	0.32 J	0.26 J	0.37 J	0.50 J
Chlorobenzene	5.214	0.83 U	0.78 U	0.74 U	0.83 U	0.74 U	0.78 U	0.74 U	0.74 U
Chloroethane	1043	0.47 U	0.45 U	0.42 U	0.47 U	0.42 U	0.45 U	0.42 U	0.42 U
Chloroform	0.1221	0.88 U	0.83 U	0.25 J	0.88 J	0.16 J	0.83 U	0.78 U	0.78 U
Chlormethane	9.386	2.3	0.35 U	1.1	7.8	1.2	0.87	0.91	1.1
cis-1,2-Dichloroethene	--	0.14 U	0.13 U	0.13 U	0.14 U	0.12 U	0.017 J	0.13 U	0.12 U
Cyclohexane	625.7	0.62 U	0.59 U	0.32 J	0.41 J	0.55 U	0.59 U	0.17 J	0.14 J
Dichlorodifluoromethane	10.43	1.9	2.9	2.6	2.3	1.9	1.9	2.2	2.3
Ethanol	--	110	2	4	584 E	3.4	26	6.2	20
Ethylbenzene	1.123	0.96	0.48	0.24	1.1	0.2	0.2	0.09 J	0.091 J
Isopropanol	20.86	2.1 J	2.1 U	0.84 J	19	0.52 J	2.4	9.3	13
Isopropylbenzene	41.71	0.88 U	0.84 U	0.79 U	0.88 U	0.79 U	0.84 U	0.79 U	0.79 U
Limonene	--	NA	NA	NA	32 JN	NA	NA	NA	NA
m/p-Xylene	10.43	2.3	1.2	0.78	3.2	0.4	0.48	0.23 J	0.25 J
Methyl t-butyl ether (MTBE)	10.80	0.65 U	0.61 U	0.065 J	0.03 J	0.58 U	0.61 U	0.58 U	0.58 U
Methylene chloride	62.57	1.2 U	2.2	1.1 U	0.94 J	1.1 U J	1.2 U	0.25 J	0.42 J

TABLE 4-2C
Detected Constituents in Vapor Intrusion Indoor Air Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Sample	Target Indoor Air Concentration	Property #12	Property #12	Property #13	Property #13	Property #14	Property #14	Property #16	Property #16
		Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 2
Lab Sample No. Sampling Date		1006051BR1-11B 5/27/2010	1006051A-03B 5/27/2010	1006585A-02B 6/15/2010	1006585A-01A 6/15/2010	1006585B-12B 6/15/2010	1006585A-04B 6/15/2010	1101210-02A 9/2/2010	1101210-05A 9/2/2010
Naphthalene	0.0826	4.6 U	4.4 U	4 U	5 U	4.1 U	4.4 U	4 U	4.1 U
n-Heptane	--	0.74 U	0.70 U	0.15 J	0.9	0.66 U	0.70 U	0.66 U	0.66 U
n-Hexane	73.00	0.12 J	0.60 U	2.3	0.78	0.56 U	0.13 J	0.6	0.67
n-Propylbenzene	104.3	0.88 U	0.84 U	0.79 U	0.24 J	0.79 U	0.84 U	0.79 U	0.79 U
n-Undecane	--	NA	NA	NA	NA	NA	NA	NA	NA
p-Ethyltoluene	--	0.88 U	0.84 U	0.20 J	0.79 J	0.79 U	0.84 U	0.79 U	0.79 U
Propylene	312.9	1.5 U	1.4 U	1 U	2 U	1.3 U	1.4 U	1 U	1.3 U
Styrene	104.3	0.18 J	0.72 U	0.18 J	1.1	0.68 U	0.16 J	0.68 U	0.68 U
tert-Butylalcohol	--	11 U	10 U	10 U	11 U	9.4 U	10 U	10 U	9.4 U
Tetrachloroethene	4.171	0.24 U	0.23 U	1	0.6	0.21 U	0.23 U	0.056 J	0.081 J
Tetrahydrofuran	208.6	2.6 U	2.5 U	7.7	3 U	2.3	6.2	2 U	2.3 U
Toluene	521.4	0.68	0.45	3	14	0.94	0.8	0.94	0.98
Trichloroethene	0.2086	0.2	0.18 U	0.024 J	0.035 J	0.059 J	0.02 J	2.5	2
Trichlorofluoromethane	--	0.84 J	0.96 U	1.6	1.9	1	1	0.96	1
Vinyl chloride	0.1676	0.046 U	1.8	0.2	0.12	0.041 U	0.043 U	0.041 U	0.041 U

Notes:

All units in ug/m³.

J - Estimated

NA - Not analyzed

N - Presumptive evidence for the presence of the compound

U - Not detected at Method Detection Limit (MDL) provide

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2D
Detected Constituents in Vapor Intrusion Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Target Groundwater Concentration	Property #2	Property #3	Property #5	Property #6	Property #7	Property #8	Property #8	Property #8	Property #9
Depth (feet bgs)	Lab Sample No. Sampling Date	24.96 460-14866-3 7/2/2010	23 460-15984-6 8/4/2010	17.5 460-15984-3 8/4/2010	19.9 460-15984-4 8/4/2010	28.6 460-14716-6 6/29/2010	33.65 460-15984-5 8/4/2010	East Sump 460-16213-1 8/10/2010	West Sump 460-16213-2 8/10/2010	11.88 460-14098-3 6/11/2010
1,1,1-Trichloroethane	741.5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	19.55	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
2-Butanone	224155	3.7 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Acetone	2259317	17	2.5 U	15	2.5 U	2.5 U	39	2.5 U	2.5 U	2.5 U
Benzene	1.586	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.61 J	0.13 U	0.13 U	0.13 U
Bromodichloromethane	0.8755	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
Carbon disulfide	124.0	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.35 J	0.15 U	0.15 U	0.15 U
Carbon tetrachloride	0.4147	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloroform	0.8136	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.35 J	0.15 U	0.15 U	0.15 U
cis-1,2-Dichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	--	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Trichloroethene	0.5179	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 J
Trichlorofluoromethane	--	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Formaldehyde	15650	NA	30.1 J	NA	NA	31.6 J	NA	NA	NA	5 U
Phenol	--	1.5 U	1.4 U	0.94 U	0.93 U	0.92 U	1.1 U	0.92 U	0.93 U	0.92 U

Notes:

All units in ug/L unless otherwise stated.

bgs - below ground surface

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2D
Detected Constituents in Vapor Intrusion Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs)	Target Groundwater Concentration	Property #10	Property #11	Property #11	Property #12	Property #13	Property #14	Property #15	Property #16	Property #16
		17.04	17.2	Duplicate of 17.2	16.49	17.5	16.6	10.04	9.4	Outfall
Lab Sample No. Sampling Date		460-14623-2 6/25/2010	460-17077-1 9/1/2010	460-17077-2 9/1/2010	460-13632-8 5/27/2010	460-14716-3 6/28/2010	460-14716-9 6/29/2010	460-16488-3 8/18/2010	460-16488-2 8/18/2010	460-16109-4 8/6/2010
1,1,1-Trichloroethane	741.5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 J	0.29 J	0.25 U
1,1-Dichloroethene	19.55	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
2-Butanone	224155	4.6 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Acetone	2259317	27	2.5 U	2.5 U	6.3 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	1.586	0.25 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	0.8755	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
Carbon disulfide	124.0	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Carbon tetrachloride	0.4147	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloroform	0.8136	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
cis-1,2-Dichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	--	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Trichloroethene	0.5179	0.18 U	0.51 J	0.43 J	0.18 U	0.18 U	0.18 U	0.18 U	43	1.8
Trichlorofluoromethane	--	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Formaldehyde	15650	NA	NA	NA	NA	5 U	5 U	6.34 J	6.81 J	5 U
Phenol	--	0.99 U	NA	NA	0.89 U	0.99 U	0.99 U	1.9 U	0.92 U	0.91 U

Notes:

All units in ug/L unless otherwise stated.

bgs - below ground surface

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provide

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2D
Detected Constituents in Vapor Intrusion Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs)	Target Groundwater Concentration	Property #16	Property #17	Property #17	Property #18	Property #18	Property #18	Property #18	Property #18	Property #19
		Sump	Outfall	Sump	3.14	11.54	16.62	Spring	Duplicate of Spring	460-15414-1 7/19/2010
Lab Sample No. Sampling Date		460-16109-3 8/6/2010	460-14098-6 6/11/2010	460-14098-5 6/11/2010	460-15626-6 7/23/2010	460-15626-1 7/23/2010	460-15626-4 7/23/2010	460-15626-5 7/23/2010		
1,1,1-Trichloroethane	741.5	0.25 U	0.25 U	0.25 U	0.65 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	19.55	0.14 U	0.14 U	0.14 U	0.22 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
2-Butanone	224155	3 J	0.82 U	0.82 U	0.82 U					
Acetone	2259317	42	2.5 U	2.5 U	2.5 U					
Benzene	1.586	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 J	0.13 U	0.13 U	0.13 U
Bromodichloromethane	0.8755	0.8 J	0.093 U	0.093 U	0.093 U					
Carbon disulfide	124.0	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Carbon tetrachloride	0.4147	0.19 U	0.19 U	0.19 U	0.29 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloroform	0.8136	3.1	0.15 U	0.15 U	0.15 U					
cis-1,2-Dichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.25 J	0.2 J	0.2 U
Dibromochloromethane	--	0.17 J	0.11 U	0.11 U	0.11 U					
Trichloroethene	0.5179	0.18 U	0.18 U	0.18 U	98	0.18 U	0.88 J	63	49	0.18 U
Trichlorofluoromethane	--	0.16 U	0.16 U	0.16 U	7.3	0.16 U	0.16 U	1.7	1.6	0.16 U
Formaldehyde	15650	115	NA	5 U	11 JB	23.7 JB	18 JB	13.8 JB	10.1 JB	18.3 J
Phenol	--	8.8 J	NA	0.92 U	0.94 U	0.94 U	0.92 U	0.99 U	0.94 U	0.95 U

Notes:

All units in ug/L unless otherwise stated.

bgs - below ground surface

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provide

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2D
Detected Constituents in Vapor Intrusion Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs)	Target Groundwater Concentration	Property #21	Property #22	Property #23	Property #24	Property #25	Property #25	Property #26	Property #28	Property #29
		12.02	13.97	6.46	14.05	6.25	Pond	23.61	10.14	5.31
Lab Sample No. Sampling Date		460-16539-1 8/19/2010	460-13632-5 5/27/2010	460-14716-8 6/29/2010	460-16963-3 8/31/2010	460-16488-6 8/18/2010	460-16488-5 8/18/2010	460-14866-4 7/2/2010	460-13632-6 5/27/2010	460-13632-7 5/27/2010
1,1,1-Trichloroethane	741.5	0.25 U	0.25 U	0.25 U	0.25 U					
1,1-Dichloroethene	19.55	0.14 U	0.14 U	0.14 U	0.14 U					
2-Butanone	224155	0.82 U	0.82 U	0.82 U	0.82 U					
Acetone	2259317	2.5 U	14	2.5 U	2.5 U					
Benzene	1.586	0.13 U	0.13 U	0.13 U	0.13 U					
Bromodichloromethane	0.8755	0.093 U	0.093 U	0.093 U	0.093 U					
Carbon disulfide	124.0	0.15 U	0.15 U	0.15 U	0.15 U					
Carbon tetrachloride	0.4147	0.19 U	0.19 U	0.19 U	0.19 U					
Chloroform	0.8136	1.3	0.15 U	0.15 U	0.15 U	0.15 U				
cis-1,2-Dichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U					
Dibromochloromethane	--	0.11 U	0.11 U	0.11 U	0.11 U					
Trichloroethene	0.5179	0.18 U	0.18 U	0.18 U	0.18 U					
Trichlorofluoromethane	--	0.16 U	0.16 U	0.16 U	0.16 U					
Formaldehyde	15650	14.2 J	NA	5 U	NA	5 U	5.37 J	24.8 JB	NA	NA
Phenol	--	0.94 U	1 U	0.99 U	0.94 U	0.94 U	0.94 U	1.1 U	0.93 U	0.9 U

Notes:

All units in ug/L unless otherwise stated.

bgs - below ground surface

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provide

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2D
Detected Constituents in Vapor Intrusion Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs)	Target Groundwater Concentration	Property #30	Property #31	Property #31	Property #32	Property #33	Property #34	Property #35	Property #35	Property #36
		17.5	0 (directly beneath slab)	0.71	9.18	8.4	11.04	13.79	Duplicate of 13.79	0.31
Lab Sample No. Sampling Date		460-14098-7 6/11/2010	460-14023-1 6/9/2010	460-14716-7 6/29/2010	460-14098-4 6/11/2010	460-15984-7 8/4/2010	460-15657-7 7/26/2010	460-13632-3 5/27/2010	460-13632-4 5/27/2010	460-15657-6 7/26/2010
1,1,1-Trichloroethane	741.5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	19.55	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
2-Butanone	224155	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Acetone	2259317	11	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	1.586	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	0.8755	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
Carbon disulfide	124.0	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Carbon tetrachloride	0.4147	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloroform	0.8136	0.15 U	0.15 U	0.15 U	0.15 U	11	0.15 U	0.15 U	0.15 U	0.15 U
cis-1,2-Dichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	--	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Trichloroethene	0.5179	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Trichlorofluoromethane	--	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Formaldehyde	15650	10.6 JB	5 U	5 U	5 U	9.59 J	32.3 JB	NA	NA	19 JB
Phenol	--	1.1 U	NA	0.94 U	0.92 U	0.99 U	0.9 U	0.89 U	0.9 U	0.91 U

Notes:

All units in ug/L unless otherwise stated.

bgs - below ground surface

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provide

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

TABLE 4-2D
Detected Constituents in Vapor Intrusion Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs)	Target Groundwater Concentration	Property #37	Property #40	Property #40	Property #41	Property #45	Property #46				
		4.46	3.8	Duplicate of 3.8	9.98	18.31	21.8	25.1	34.56	Sump	Sump
Lab Sample No. Sampling Date		460-14098-8 6/11/2010	460-14716-1 6/28/2010	460-14716-2 6/28/2010	460-14866-2 7/2/2010	460-15322-2 7/15/2010	460-15657-1 7/26/2010	460-15322-3 7/15/2010	460-15322-5 7/15/2010	460-15657-4 7/26/2010	460-15657-3 7/26/2010
1,1,1-Trichloroethane	741.5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	19.55	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
2-Butanone	224155	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	4.2 J	0.82 U	2 J	0.82 U	0.82 U
Acetone	2259317	2.5 U	2.5 U	2.5 U	11	2.5 U	18	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	1.586	0.13 U	0.13 U	0.13 U	0.13 U	0.15 J	0.19 J	0.14 J	0.19 J	0.13 U	0.13 U
Bromodichloromethane	0.8755	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
Carbon disulfide	124.0	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Carbon tetrachloride	0.4147	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloroform	0.8136	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
cis-1,2-Dichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	--	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Trichloroethene	0.5179	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Trichlorofluoromethane	--	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Formaldehyde	15650	5 U	5 U	5 U	10.9 JB	27.4 J	NA	15.9 J	25.6 J	17.1 JB	15.6 JB
Phenol	--	0.92 U	0.97 U	0.99 U	0.99 U	0.99 U	NA	0.9 U	1.3 U	0.9 U	0.9 U

Notes:

All units in ug/L unless otherwise stated.

bgs - below ground surface

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provide

-- No criteria

Yellow shading and bold denotes value greater than target concentration.

The Property # referenced here is synonymous with the Location # referenced in Attachment D, "Vapor Intrusion Evaluation for the Affected Area", of Appendix M, Baseline Human Health Risk Assessment Report. (e.g. Property #2 is the same as Location #2)

Table 4-2E
 Property/Location # Compared to Property Address
 Foster Wheeler Energy Corporation/Church Road TCE Site
 Mountain Top, PA

Property # (Referenced in RI/FS Report)	Location # (Referenced in BHHRRA)	Property Address	Air Samples Collected?	Groundwater Samples Collected?	Notes
2	2	130 Church Road	Yes	Yes	
3	3	146 Church Road	Yes	Yes	
5	5	164 Church Road	No	Yes	
6	6	166 Church Road	No	Yes	
7	7	168 Church Road	No	Yes	
8	8	170 Church Road	Yes	Yes	
9	9	171 Church Road	Yes	Yes	
10	10	174 Church Road	Yes	Yes	
11	11	175 Church Road	Yes	Yes	
12	12	178 Church Road	Yes	Yes	
13	13	179 Church Road	Yes	Yes	
14	14	181 Church Road	Yes	Yes	
15	15	192 Church Road*	No	Yes	
16	16	194 Church Road	Yes	Yes	
17	17	196 Church Road	No	Yes	
18	18	201 Church Road*	No	Yes	
19	19	205 Church Road	Yes	Yes	
20	20	207 Church Road	Yes	No	
21	21	208 Church Road	Yes	Yes	
22	22	212 Church Road	Yes	Yes	
23	23	222 Church Road	Yes	Yes	
24	24	224 Church Road	Yes	Yes	
25	25	228 Church Road	No	Yes	
26	26	242 Church Road	Yes	Yes	
28	28	10 Stonewall Circle	Yes	Yes	
29	29	15 Stonewall Circle	Yes	Yes	
30	30	20 Stonewall Circle	Yes	Yes	
31	31	25 Stonewall Circle	No	Yes	
32	32	30 Stonewall Circle	Yes	Yes	
33	33	40 Stonewall Circle	Yes	Yes	
34	34	20 North Sunset Drive	Yes	Yes	
35	35	14 Sunset Drive	Yes	Yes	
36	36	23 South Sunset Drive	No	Yes	
37	37	19 Elbe Road	No	Yes	
40	40	390 South Mountain Boulevard	Yes	Yes	
41	41	393 South Mountain Boulevard	Yes	Yes	
44	44	420 South Mountain Boulevard	Yes	No	St Jude's Rectory
45	45	420 South Mountain Boulevard	Yes	Yes	St Jude's Church Center
46	46	420 South Mountain Boulevard	Yes	No	St Jude's Parish Center
47	47	420 South Mountain Boulevard	Yes	Yes	St Jude's School

RI/FS: Remedial Investigation/Feasibility Study

BHHRRA: Baseline Human Health Risk Assessment

Properties sampled in 2010 are included in this table

*The property owner granted access for the collection of sub-slab soil gas samples in 2017. There were no sub-slab soil gas exceedances and trichloroethene was non-detect in all samples. The results will be summarized in a forthcoming report.

Table 4-2F
 Properties/Locations Removed from Further Consideration
 Foster Wheeler Energy Corporation/Church Road TCE Site
 Mountain Top, PA

Property/Location # (Sampled but not Included in Table D-4)	Property Address	GW Sample Collected? (Yes/No)	Soil Gas Sample Collected? (Yes/No)	Indoor Air Sample Collected? (Yes/No)	Reason for Removing Property/Location from Further Consideration
2	130 Church Road	Yes	Yes	No	No GW VOC exceedances, no soil gas exceedances
5	164 Church Road	Yes	No	No	No GW VOC exceedances
6	166 Church Road	Yes	No	No	No GW VOC detections
7	168 Church Road	Yes	No	No	No GW VOC exceedances
15	192 Church Road	Yes	No	No	No GW VOC exceedances, Property owner declined access for air sampling in 2010*
17	196 Church Road	Yes	No	No	No GW VOC detections
18	201 Church Road	Yes	No	No	Property owner declined access for air sampling in 2010*
22	212 Church Road	Yes	Yes	No	No GW VOC detections, no soil gas exceedances
23	222 Church Road	Yes	Yes	No	No GW VOC detections, no soil gas exceedances
25	228 Church Road	Yes	No	No	No GW VOC detections
28	10 Stonewall Circle	Yes	Yes	No	No GW VOC detections, no soil gas exceedances
29	15 Stonewall Circle	Yes	Yes	No	No GW VOC detections, no soil gas exceedances
30	20 Stonewall Circle	Yes	Yes	No	No GW VOC exceedances, no soil gas exceedances
31	25 Stonewall Circle	Yes	No	No	No GW VOC detections
32	30 Stonewall Circle	Yes	Yes	No	No GW VOC detections, no soil gas exceedances
36	23 South Sunset Drive	Yes	No	No	No GW VOC detections
37	19 Elbe Road	Yes	No	No	No GW VOC detections
44	420 South Mountain Boulevard	No	Yes	No	No soil gas exceedances
45	420 South Mountain Boulevard	Yes	Yes	No	No GW VOC exceedances, no soil gas exceedances

GW: groundwater

VOC: volatile organic compound

*: Although not included in Table 4-2D, further sampling was conducted at this location due to trichloroethene detections in groundwater. The property owner granted access for the collection of sub-slab soil gas samples in 2017. There were no sub-slab soil gas exceedances of residential screening criteria, and trichloroethene was non-detect in all samples. The results will be summarized in a forthcoming report.

Soil gas sample results are presented in Table 4-2A

Vapor intrusion groundwater sample results are presented in Table 4-2D

TABLE 4-3A
Detected Constituents in Surface Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Area Location	Most Stringent EPA Industrial Surface	Former Shot Blast Sands Storage Area				
		01	02	03	04	05
Depth (feet bgs)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Sample ID	FCR01-01	FCR01-02	FCR01-03	FCR01-04	FCR01-05	FCR01-05
Lab Sample No.	460-35053-1	460-35053-2	460-35053-3	460-35053-4	460-35053-5	460-35053-5
Sampling Date	12/20/2011	12/20/2011	12/20/2011	12/20/2011	12/20/2011	12/20/2011
Ethylbenzene	25	NA	0.00026 J	NA	NA	NA
Methylene Chloride	1000	NA	0.00043 U	NA	NA	NA
Acenaphthene	45000	0.052 U	0.051 U	0.053 U	0.16 J	0.099 J
Anthracene	230000	0.065 U	0.063 U	0.065 U	0.55	0.35 J
Benzo[a]anthracene	2.9	0.0068 U	0.13	0.0068 U	1.9	0.66
Benzo[a]pyrene	0.29	0.019 J	0.11	0.035 J	1.7	0.54
Benzo[b]fluoranthene	2.9	0.033 J	0.16	0.043	2	0.64
Benzo[g,h,i]perylene	--	0.039 U	0.074 J	0.046 J	0.98	0.38
Benzo[k]fluoranthene	29	0.0051 U	0.058	0.0052 U	0.81	0.24
Bis(2-ethylhexyl) phthalate	160	0.049 U	0.048 U	0.049 U	2.8	0.05 U
Butyl benzyl phthalate	1200	0.043 U	0.042 U	0.043 U	0.045 U	0.044 U
Carbazole	--	0.058 U	0.057 U	0.059 U	0.31 J	0.13 J
Chrysene	290	0.053 U	0.14 J	0.054 U	2	0.67
Dibenz(a,h)anthracene	0.29	0.0044 U	0.0043 U	0.0044 U	0.33	0.12
Dibenzofuran	1000	0.055 U	0.054 U	0.055 U	0.085 J	0.074 J
Fluoranthene	30000	0.061 U	0.23 J	0.061 U	3.3	1.2
Fluorene	30000	0.062 U	0.061 U	0.062 U	0.18 J	0.15 J
Indeno[1,2,3-cd]pyrene	2.9	0.0059 U	0.082	0.041	1.1	0.38
Naphthalene	17	0.054 U	0.052 U	0.054 U	0.057 U	0.055 U
Phenanthrene	--	0.064 U	0.13 J	0.064 U	2.2	1.2
Pyrene	23000	0.064 U	0.23 J	0.064 U	2.7	1.1
Aluminum	1100000	5010 L	4030 L	5080 L	8400 L	3870 L
Antimony	470	1.3 U	1.3 U	1.4 U	2.2 K	1.3 U
Arsenic	3	6.4	5.4	8.2	7	5.7
Barium	220000	22.9 J	47.4	39.1 J	162	30.1 J
Beryllium	2300	0.33 J	1.1	0.41 J	3.4	0.35 J
Cadmium	980	0.43 K	0.62 K	0.82 K	3.3	0.7 K
Calcium	--	14900	885 J	10300	5170	841 J
Chromium	1800000 / 6.3*	8.7	9.5	68.9	84.2	34
Cobalt	350	4.7 J	10.3 J	9.4 J	42.6	6.2 J

TABLE 4-3A
Detected Constituents in Surface Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Area Location	Most Stringent EPA Industrial Surface Soil	Former Shot Blast Sands Storage Area				
		01	02	03	04	05
Depth (feet bgs)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Sample ID	FCR01-01	FCR01-02	FCR01-03	FCR01-04	FCR01-05	FCR01-05
Lab Sample No.	460-35053-1	460-35053-2	460-35053-3	460-35053-4	460-35053-5	460-35053-5
Copper	47000	13.2 L	59.5 L	49.9 L	469 L	27 L
Iron	820000	12000	18500	21900	33400	18800
Lead	800	13 L	37.3 L	19.4 L	419 L	146 L
Magnesium	--	1890	836 J	2280	1810	899 J
Manganese	26000	294	609	695	369	325
Mercury	40	0.023 U	0.024 U	0.023 U	0.024 U	0.14
Nickel	22000	10.4 J	29.1 J	42.7 J	301 J	13.1 J
Potassium	--	321 J	371 J	360 J	889 J	308 J
Selenium	5800	1.4 U	1.4 U	1.5 U	1.5 J	1.3 U
Silver	5800	0.21 U	0.22 K	0.45 K	0.71 K	0.2 U
Sodium	--	168 U	168 U	175 U	353 J	161 U
Vanadium	5800	8.6 J	6 J	9.4 J	16.1	7.3 J
Zinc	350000	30 L	160 L	64.4 L	2210 L	69.4 L
Percent Moisture (%)	--	10.4	7.7	10.7	15.2	12.2
Percent Solids (%)	--	89.6	92.3	89.3	84.8	87.8

Notes:

All units in mg/kg unless otherwise stated.

* Both Cr[III] and Cr[IV] RSLs provided for chromium.

bgs - below ground surface

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

L - Reported value may be biased low.

K - Reported value may be biased high.

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-3A
Detected Constituents in Surface Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Area Location	Most Stringent EPA Industrial Surface	Expended Waste Area				
		06	06 Duplicate	07	08	09
Depth (feet bgs)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Sample ID	FCR01-06	FCR01-10	FCR01-07	FCR01-08	FCR01-09	FCR01-09
Lab Sample No.	460-35053-6	460-35053-10	460-35053-7	460-35053-8	460-35053-9	460-35053-9
Sampling Date	12/20/2011	12/20/2011	12/20/2011	12/20/2011	12/20/2011	12/20/2011
Ethylbenzene	25	0.00019 U	0.00019 U	NA	NA	NA
Methylene Chloride	1000	0.00047 U	0.00046 U	NA	NA	NA
Acenaphthene	45000	0.052 U	0.052 U	0.055 U	0.055 U	0.056 U
Anthracene	230000	0.065 U	0.065 U	0.068 U	0.078 J	0.07 U
Benzo[a]anthracene	2.9	0.0068 U	0.0068 U	0.22	0.34	0.032 J
Benzo[a]pyrene	0.29	0.016 J	0.02 J	0.21	0.33	0.027 J
Benzo[b]fluoranthene	2.9	0.039	0.031 J	0.38	0.48	0.046
Benzo[g,h,i]perylene	--	0.039 U	0.039 U	0.13 J	0.21 J	0.042 U
Benzo[k]fluoranthene	29	0.0051 U	0.0051 U	0.12	0.17	0.0055 U
Bis(2-ethylhexyl) phthalate	160	0.11 J	0.13 J	0.15 J	0.11 J	0.052 U
Butyl benzyl phthalate	1200	0.043 U	0.043 U	0.045 U	0.045 U	0.046 U
Carbazole	--	0.058 U	0.058 U	0.061 U	0.061 U	0.063 U
Chrysene	290	0.053 U	0.053 U	0.24 J	0.39	0.057 U
Dibenz(a,h)anthracene	0.29	0.0044 U	0.0044 U	0.034 J	0.054	0.0047 U
Dibenzofuran	1000	0.055 U	0.055 U	0.058 U	0.058 U	0.059 U
Fluoranthene	30000	0.061 U	0.099 J	0.33 J	0.66	0.066 U
Fluorene	30000	0.062 U	0.062 U	0.065 U	0.065 U	0.067 U
Indeno[1,2,3-cd]pyrene	2.9	0.0059 U	0.012 J	0.17	0.22	0.026 J
Naphthalene	17	0.054 U	0.067 J	0.056 U	0.056 U	0.058 U
Phenanthrene	--	0.064 U	0.064 U	0.11 J	0.28 J	0.069 U
Pyrene	23000	0.063 U	0.077 J	0.38	0.61	0.068 U
Aluminum	1100000	5380 L	6260 L	3210 L	4910 L	4620 L
Antimony	470	1.3 U	1.9 K	1.4 U	1.3 U	2.2 K
Arsenic	3	4.4	5.7	8.6	5.6	8.6
Barium	220000	125	96.9	53.4	48.8	59.8
Beryllium	2300	2.8	4.1	1.3	1.6	0.98
Cadmium	980	3.8	4.4	1 K	2.3	1.1 K
Calcium	--	10700	12200	5290	2570	1780
Chromium	1800000 / 6.3*	62.3	64.3	32.5	56.8	22.5
Cobalt	350	32.8	37.3	14.5	13.8	20.5

TABLE 4-3A
Detected Constituents in Surface Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Area Location	Most Stringent EPA Industrial Surface Soil	Expended Waste Area				
		06	06 Duplicate	07	08	09
Depth (feet bgs)	0 - 0.5 FCR01-06 460-35053-6	0 - 0.5 FCR01-10 460-35053-10	0 - 0.5 FCR01-07 460-35053-7	0 - 0.5 FCR01-08 460-35053-8	0 - 0.5 FCR01-09 460-35053-9	
Copper	47000	325 L	358 L	135 L	122 L	47.8 L
Iron	820000	25700	28100	13300	20200	25400
Lead	800	203 L	241 L	92.4 L	90.3 L	20.6 L
Magnesium	--	1520	1760	771 J	976 J	718 J
Manganese	26000	378	527	300	482	1100
Mercury	40	0.024 U	0.022 U	0.026 U	0.024 U	0.025 U
Nickel	22000	174 J	219 J	85.2 J	74.2 J	26.5 J
Potassium	--	547 J	579 J	375 J	466 J	470 J
Selenium	5800	1.4 U	1.3 U	1.5 U	1.4 U	1.6 U
Silver	5800	0.44 K	0.56 K	0.35 K	0.21 U	0.24 U
Sodium	--	228 J	197 J	184 U	165 U	187 U
Vanadium	5800	8.3 J	9.8	9.5 J	9.8 J	14.3
Zinc	350000	1670 L	2260 L	907 L	870 L	170 L
Percent Moisture (%)	--	9.7	9.6	14.2	14.3	16.4
Percent Solids (%)	--	90.3	90.4	85.8	85.7	83.6

Notes:

All units in mg/kg unless otherwise stated.

* Both Cr[III] and Cr[IV] RSLs provided for chromium
bgs - below ground surface

B - Reported value may be wholly or partially due to
contamination in an associated blank sample

J - Estimated

L - Reported value may be biased low.

K - Reported value may be biased high.

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL)
provided

Yellow shading and bold denotes value greater
than most stringent EPA criterion.

TABLE 4-3B
Chromium/Hexavalent Chromium Constituents in Additional Surface Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Area Location	Most Stringent <i>EPA</i> <i>Industrial</i> <i>Surface</i>	Former Shot Blast Sands Storage Area			
		03	04	05	05 Dup
Depth (feet bgs)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Sample ID	FCR-03-C-GB-SS	FCR-04-C-GB-SS	FCR-05-C-GB-SS	DUP 1-041316	
Lab Sample No.	1616031-04	1616031-03	1616031-01	1616031-02	
Sampling Date	04/13/2016	04/13/2016	04/13/2016	04/13/2016	
Chromium	1800000	23.6 J	40.6 J	52.4 J	33.4 J
Hexavalent Chromium	6.3	0.332	0.184	0.945	1.28 J
Total Solids (%)	--	76.1	82.36	89.41	88.53
ORP (mV)		417 J	420 J	418	421 J
pH (SU)	--	7.23	7.16	6.74	7.08

Notes:

All units in mg/kg unless otherwise stated.

bgs - below ground surface

J - Estimated

U - Not detected at Method Detection Limit (MDL)
provided

Yellow shading and bold denotes value greater
than most stringent EPA criterion.

TABLE 4-3B
Chromium/Hexavalent Chromium Constituents in Additional Surface Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Area Location	Most Stringent EPA <i>Industrial Surface</i>	Expended Waste Area			
		06	07	08	09
Depth (feet bgs)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Sample ID	FCR-06-C-GB-SS	FCR-07-C-GB-SS	FCR-08-C-GB-SS	FCR-09-C-GB-SS	
Lab Sample No.	1616031-15	1616031-12	1616031-13	1616031-14	
Sampling Date	04/13/2016	04/13/2016	04/13/2016	04/13/2016	
Chromium	1800000	22.0 J	15.6 J	19.8 J	15.4 J
Hexavalent Chromium	6.3	0.003 U	0.003 U	0.003 U	0.003 U
Total Solids (%)	--	66.02	73.99	66.58	69.99
ORP (mV)		494	474	476	467
pH (SU)	--	5.02	5.56	5.69	6.06

Notes:

All units in mg/kg unless otherwise stated.

bgs - below ground surface

J - Estimated

U - Not detected at Method Detection Limit (MDL)
provided

Yellow shading and bold denotes value greater
than most stringent EPA criterion.

TABLE 4-3C
Background Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Area Location	Most Stringent EPA Industrial Surface Soil Value	Site-Specific Background											
		BS-1	BS-1 Duplicate	BS-1	BS-1 Duplicate	BS-2	BS-3	BS-3	BS-4	BS-4	BS-5	BS-5	BS-6
Depth (feet bgs)	0 - 1	0 - 1	1 - 2	1 - 2	0 - 1	0 - 1	1 - 2	0 - 1	1 - 1.5	0 - 1	1 - 2	0 - 1	0 - 1
Sample ID	BS-1-GB-SS	DUP3-041316FD	BS-1-GB-0102	DUP4-041316FD	BS-2-GB-SS	BS-3-GB-SS	BS-3-GB-0102	BS-4-GB-SS	BS-4-GB-01015	BS-5-GB-SS	BS-5-GB-0102	BS-6-GB-SS	BS-6-GB-SS
Sampling Date	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/14/2016	4/14/2016	4/13/2016
Aluminum	1100000	2020	1890	21000	19600	2990	10600	12500	5630	13900	11600	14900	4420
Antimony	470	0.634 U	0.607 U	0.951 J	0.77 J	1.55 U	2.26	0.801 J	0.694 U	0.702 J	0.49 J	0.862 J	0.67 U
Arsenic	3	2.83	2.8	6.82	4.23	4.67 J	7.38	5.4	3.38	3.64	3.42	7.39	3.04
Barium	220000	20.9	17.7	27.4	26.7	67.8	35.5	33.7	28.2	37.3	33.2	45.1	18.7
Beryllium	2300	0.129 U	0.124 U	0.41 J	0.437 J	0.315 U	0.272 J	0.373 J	0.2 J	0.394 J	0.645	0.908	0.148 J
Cadmium	980	0.0986 J	0.0551 U	0.0504 U	0.0499 U	0.441 J	0.354 J	0.0458 U	0.108 J	0.0444 U	0.0422 U	0.304 J	0.0608 U
Calcium	--	79.8	51.9	33.3	30.1	267	334	100	201	66.5	149	358	52.5
Chromium	1800000 / 6.3*	4.45	3.58	15.7	14.9	11.5	13.2	13.6	5.44	13.4	12.2	14.1	4.53
Cobalt	350	0.627	0.372 J	5.5	4.96	1.83	4.11	4.46	0.676	2.41	7.52	7.12	1.38
Copper	47000	7.44	6.55	7.85	7.18	21.3	8.37	11.7	6.47	9.56	11.4	12.4	2.86 J
Iron	820000	3300	2980	20100	19400	6290	16800	20200	6590	17100	20800	21700	7050
Lead	800	66.4	60.8	16.8	15.7	165	19.9	11.5	27.4	10.4	15.5	22.8	19.6
Magnesium	--	122 J	104 J	532 J	523 J	189 J	1370 J	1580 J	294 J	1020 J	1230 J	1160 J	273 J
Manganese	26000	30.8	21.9	259	211	62.4	251	148	56.3	67	420	429	115
Mercury	40	0.0593 J	0.0684 J	0.0865 J	0.0759 J	0.235 J	0.068 J	0.0226 J	0.0626 J	0.0403 J	0.0393 J	0.0483 J	0.0347 J
Nickel	22000	3.59	2	8.54	8.34	14	6.47	9.83	3.2	6.64	7.78	5.92	1.4
Potassium	--	282 J	218 J	516 J	530 J	448 J	856 J	1000 J	432 J	804 J	786 J	1050 J	377 J
Selenium	5800	1.45 J	1.01 U	1.94 J	1.44 J	2.58 U	0.852 U	0.93 J	1.16 U	1.21 J	1.4 J	1.02 J	1.12 U
Silver	5800	0.211 U	0.202 U	0.185 U	0.183 U	0.515 U	0.512	0.168 U	0.231 U	0.163 U	0.155 U	0.712	0.223 U
Sodium	--	28.1 U	26.9 U	24.6 U	24.3 U	75.4 J	35.1 J	29.4 J	30.7 U	23.6 J	24 J	37.9 J	29.7 U
Thallium	12	0.88 U	0.843 U	1.02 J	1.12 J	2.15 U	0.952 J	1.06 J	0.963 U	1.11 J	1.22 J	1.36 J	0.931 U
Vanadium	5800	7.9	7.32	29.1	27	12.2	20.7	19	11.9	21.5	17.3	23.4	11.3
Zinc	350000	14.8	11.6	46.8	46	56.3	26.9	26.8	17.9	21.7	26	30.1	9.04
Cyanide, Total	130	0.26 U	0.26 U	0.26 U	0.26 U	0.52 U	0.25 U	0.22 U	0.26 U	0.24 U	0.22 U	0.27 J	0.24 U

Notes:

All units in mg/kg unless otherwise stated.

* Both Cr[III] and Cr[IV] RSLs provided for chromium.

bgs - below ground surface

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-3C
Background Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Area Location Depth (feet bgs) Sample ID Sampling Date	Most Stringent EPA Industrial Surface Soil Value	Site-Specific Background												
		BS-6	BS-7	BS-7	BS-8	BS-8	BS-9	BS-9	BS-10	BS-10	Minimum	Maximum	Average	
		1 - 2	0 - 1	1 - 2	0 - 1	1 - 2	0 - 1	1 - 2	0 - 1	1 - 2				
		BS-6-GB-0102	BS-7-GB-SS	BS-7-GB-0102	BS-8-GB-SS	BS-8-GB-0102	BS-9-GB-SS	BS-9-GB-0102	BS-10-GB-SS	BS-10-GB-0102				
		4/13/2016	4/13/2016	4/13/2016	4/14/2016	4/14/2016	4/14/2016	4/14/2016	4/14/2016	4/14/2016				
Aluminum	1100000	13800	9440	10500	6840	7660	10100	9510	8870	11000	1,890	21,000	9,941	8,389
Antimony	470	0.549 U	0.7 U	0.467 U	0.66 U	0.66 U	0.554 U	0.547 J	0.503 U	0.502 U	0.490	2.26	0.923	0.825
Arsenic	3	4.69	4.43	3.52	3.71	3.96	4.65	4.84	2.96	1.14 J	1.14	7.39	4.23	3.94
Barium	220000	31.5	36.4	32.5	46.2	50.5	201	40.8	58.5	79	17.7	201	46.1	38.6
Beryllium	2300	0.392 J	0.368 J	0.414 J	0.356 J	0.28 J	0.907	0.501	0.507	0.329 J	0.148	0.908	0.436	0.395
Cadmium	980	0.0499 U	0.0635 U	0.0424 U	0.0599 U	0.0599 U	0.0502 U	0.0416 U	0.0456 U	0.0456 U	0.0986	0.441	0.261	0.219
Calcium	--	23.3	52.2	28.5	2270	3860	536	574	1340	1110	23.3	3,860	548	179
Chromium	1800000 / 6.3*	14.7	7.97	11	11.7	11.1	13.7	11.5	11.2	10.5	3.58	15.7	11.0	10.1
Cobalt	350	3.5	1.54	2.63	3.51	2.77	17.4	7.24	4.55	3.16	0.372	17.4	4.16	2.93
Copper	47000	10.6	5.98	6.19	16.8	16.6	23.6	15.1	13.6	2.6 J	2.60	23.6	10.7	9.26
Iron	820000	21000	13700	16800	13600	12700	19800	17500	12000	5590	2,980	21,700	14,048	12,123
Lead	800	10	30.4	13.9	22.8	24.9	27.1	14.7	20.1	14.6	10.0	165	30.0	22.4
Magnesium	--	1470 J	483 J	852 J	826 J	1130 J	1300 J	1300 J	1080 J	811 J	104	1,580	840	656
Manganese	26000	106	131	71	376	328	15700	538	105	51.2	21.9	15,700	928	165
Mercury	40	0.0314 J	0.0845 J	0.0444 J	0.0522 J	0.0621 J	0.0359 J	0.0325 J	0.0556 J	0.0388 J	0.023	0.235	0.061	0.053
Nickel	22000	8.82	3.4	6.04	8.98	8.28	13.1	10.6	8.69	5.88	1.4	14	7.21	6.29
Potassium	--	907 J	655 J	653 J	748 J	692 J	1270 J	836 J	803 J	972 J	218	1,270	706	650
Selenium	5800	0.916 U	1.35 J	1.51 J	1.1 U	1.21 J	9.32	0.764 U	0.838 U	0.837 U	0.930	9.32	2.07	1.58
Silver	5800	0.183 U	0.233 U	0.156 U	0.22 U	0.22 U	1.02	0.153 U	0.168 U	0.167 U	0.512	1.02	0.748	0.719
Sodium	--	24.3 U	31 U	20.7 U	40.5 J	35.3 J	46 J	22.3 J	42.1 J	49 J	22.3	75.4	38.4	36.2
Thallium	12	1.1 J	0.973 U	0.826 J	0.916 U	0.916 U	11	1.18 J	0.698 U	0.697 U	0.826	11	2.00	1.34
Vanadium	5800	22	18.9	16.6	14	14.1	15.2	14.5	13.9	16.4	7.32	29.1	16.9	15.9
Zinc	350000	27.2	17.4	19.1	33	32.3	53.3	34.5	40.9	29.3	9.04	56.3	29.6	26.7
Cyanide, Total	130	0.21 U	0.31 U	0.22 U	0.23 U	0.24 U	0.22 U	0.28 J	0.24 U	0.22 U	0.27	0.28	0.275	0.275

Notes:

All units in mg/kg unless otherwise stated.

* Both Cr[III] and Cr[IV] RSLs provided for chromium.

bgs - below ground surface

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-4
Detected Constituents and Geotechnical Results in Vicinity of Former Vapor Degreaser (MIP Area #1) Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs)	Most Stringent EPA Industrial Subsurface Soil Value	B2	B4	B7	B14
Sample ID	9.5-10.0 MIP1-B2-9.5-10.0	16.5-17.0 MIP1-B4-16.5-17.0	6.5-7.0 MIP1-B7-6.5-7.0	18-18.5 MIP1-B14-18-18.5	
Lab Sample No.	460-20485-1	460-19097-2	460-19097-1	460-20485-2	
Sampling Date	11/30/2010	10/25/2010	10/25/2010	11/30/2010	
1,1,1-Trichloroethane	36000	0.0024	0.025 U	0.023 U	0.0046
Acetone	670000	0.0041 B	0.25 U	0.23 U	0.0054 B
cis-1,2-Dichloroethene	2300	0.00022 U	0.05 J	0.018 U	0.0015
Tetrachloroethene	100	0.00031 U	0.021 J	0.52	0.00029 U
Trichloroethene	6	0.0053	10	26	0.15
Bis(2-ethylhexyl) phthalate	160	0.18 J	0.050 U	0.048 U	0.14 J
gamma-BHC (Lindane)	2.5	0.0015 J	0.00088 U	0.00086 U	0.0018 J
Aluminum	1100000	6060	11700	6350	6370
Arsenic	3	5.7 L	18.2	7.1	5.5 L
Barium	220000	37 J	244	36.4 J	40.6 J
Beryllium	2300	0.49	1.3	0.57	0.59
Cadmium	980	0.17 U	0.22 J	0.17 U	0.17 U
Calcium	--	532 J	98.9 J	328 J	334 J
Chromium	1800000 / 6.3*	10.2 L	10.2	9.9	12.4 L
Cobalt	350	6.7 J	15.1	8.5 J	5 J
Copper	47000	11.5	36.4	12.7	12.9
Iron	820000	18400	20800	20500	21200
Lead	800	10.1	13.4	11.9	11.8
Magnesium	--	1070	3430	1140	1200
Manganese	26000	207 L	4820	420	115 L
Nickel	22000	10.3	32.3	10.6	11.2
Potassium	--	581 L	658 J	573 J	621 L
Sodium	--	65.1 U	66.3 U	65.1 U	121 B
Vanadium	5800	10.5 J	12.8	10.5 J	11.8
Zinc	350000	25.8	70.4	28.1	28.2

TABLE 4-4
Detected Constituents and Geotechnical Results in Vicinity of Former Vapor Degreaser (MIP Area #1) Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Most Stringent EPA Industrial Subsurface Soil Value	B2	B4	B7	B14
		9.5-10.0 MIP1-B2-9.5-10.0 460-20485-1 11/30/2010	16.5-17.0 MIP1-B4-16.5-17.0 460-19097-2 10/25/2010	6.5-7.0 MIP1-B7-6.5-7.0 460-19097-1 10/25/2010	18-18.5 MIP1-B14-18-18.5 460-20485-2 11/30/2010
Percent Moisture (%)	--	11.8	11.8	9.3	12.1
Percent Solids (%)	--	88.2	88.2	90.7	87.9
TOC	--	2070	314	1100	3700
Total Organic Matter (%)	--	1.0	2.1	1.2	1.1
Fraction Organic Carbon (%)	--	0.58	1.2	0.70	0.64
In Place Density (g/cc)	--	1.69	1.23	1.56	1.85
Ash Content (%)	--	99.0	97.9	98.8	98.9
Moisture Content (%)	--	14.7	28.6	10.1	13.9
Clay (%)	--	5.6	17.8 (clay/silt)	46.8 (clay/silt)	9.0
Coarse Sand (%)	--	2.0	12.9	6.1	5.5 J
Fine Sand (%)	--	41.5 J	31.1	26.7	30.2 J
Gravel (%)	--	1.3	24.2	7.1	12.0 J
Hydrometer Reading 1 - Percent Finer (% Passing)	--	22.9	NA	NA	25.4
Hydrometer Reading 2 - Percent Finer (% Passing)	--	14.9	NA	NA	20.3
Hydrometer Reading 3 - Percent Finer (% Passing)	--	10.9	NA	NA	15.3
Hydrometer Reading 4 - Percent Finer (% Passing)	--	6.9	NA	NA	11.5
Hydrometer Reading 5 - Percent Finer (% Passing)	--	5.6	NA	NA	9.0
Hydrometer Reading 6 - Percent Finer (% Passing)	--	2.9	NA	NA	6.5
Hydrometer Reading 7 - Percent Finer (% Passing)	--	1.6	NA	NA	4.0
Medium Sand (%)	--	8.4 J	14.0	13.3	10.7 J
Sand (%)	--	51.9 J	58.0	46.1	46.4 J
Sieve Size #10 - Percent Finer (% Passing)	--	96.7	NA	NA	82.5 J

TABLE 4-4
Detected Constituents and Geotechnical Results in Vicinity of Former Vapor Degreaser (MIP Area #1) Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Most Stringent EPA Industrial Subsurface Soil Value	B2	B4	B7	B14
		9.5-10.0 MIP1-B2-9.5-10.0 460-20485-1 11/30/2010	16.5-17.0 MIP1-B4-16.5-17.0 460-19097-2 10/25/2010	6.5-7.0 MIP1-B7-6.5-7.0 460-19097-1 10/25/2010	18-18.5 MIP1-B14-18-18.5 460-20485-2 11/30/2010
Sieve Size #100 - Percent Finer (% Passing)	--	66.8 J	29.5	55.5	54.1 J
Sieve Size #16 - Percent Finer (% Passing)	--	NA	57.2	83.5	NA
Sieve Size #20 - Percent Finer (% Passing)	--	94.1 J	NA	NA	78.7 J
Sieve Size #200 - Percent Finer (% Passing)	--	46.8 J	17.8	46.8	41.6 J
Sieve Size #30 - Percent Finer (% Passing)	--	NA	51.0	78.2	NA
Sieve Size #4 - Percent Finer (% Passing)	--	98.7	75.8	92.9	88.0 J
Sieve Size #40 - Percent Finer (% Passing)	--	88.3 J	NA	NA	71.8 J
Sieve Size #50 - Percent Finer (% Passing)	--	NA	45.2	67.7	NA
Sieve Size #60 - Percent Finer (% Passing)	--	81.7 J	NA	NA	65.2 J
Sieve Size #8 - Percent Finer (% Passing)	--	NA	64.8	87.9	NA
Sieve Size #80 - Percent Finer (% Passing)	--	70.7 J	NA	NA	56.7 J
Sieve Size 0.375 inch - Percent Finer (% Passing)	--	100.0	89.1	97.9	96.5 J
Sieve Size 0.5 inch - Percent Finer (% Passing)	--	NA	90.9	98.6	NA
Sieve Size 0.75 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0
Sieve Size 1 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0

TABLE 4-4
Detected Constituents and Geotechnical Results in Vicinity of Former Vapor Degreaser (MIP Area #1) Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs)	Most Stringent EPA Industrial Subsurface Soil Value	B2	B4	B7	B14
Sample ID		9.5-10.0	16.5-17.0	6.5-7.0	18-18.5
Lab Sample No.	MIP1-B2-9.5-10.0	MIP1-B4-16.5-17.0	MIP1-B7-6.5-7.0	MIP1-B14-18-18.5	
Sampling Date	460-20485-1 11/30/2010	460-19097-2 10/25/2010	460-19097-1 10/25/2010	460-20485-2 11/30/2010	
Sieve Size 1.5 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0
Sieve Size 2 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0
Sieve Size 3 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0
Silt (%)	--	41.2	17.8 (clay/silt)	46.8 (clay/silt)	32.6

Notes:

All units in mg/kg unless otherwise stated.

* Both Cr[III] and Cr[IV] RSLs provided for chromium.

bgs - below ground surface

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

L - Reported value may be biased low

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- - No criteria

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-5A
Detected Constituents and Geotechnical Results in Vicinity of Former Finish Paint Building and Solvent and Paint Storage Buildings (MIP Area 2) Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Most Stringent EPA Industrial Subsurface Soil Value	B5	B13	B20A	B30	
		9-9.5 MIP2-B5-9-9.5 460-20485-3 11/30/2010	13-14 MIP2-B13-13-14 460-20628-4 12/2/2010	7.5-8.0 MIP2-B20A-7.5-8.0 460-20485-4 11/30/2010	11.5-12.0 MIP2-B30-11.5-12.0 460-20485-5 11/30/2010	11.5-12.0 (Duplicate) MIP-Soil Dup 460-20485-6 11/30/2010
1,1,1-Trichloroethane	36000	0.029	0.0016	51	0.0053	0.0015
1,1-Dichloroethane	16	0.00036 J	0.00023 U	0.55	0.00054 J	0.00053 J
1,1-Dichloroethene	1000	0.00093	0.00034 U	4.1	0.00057 J	0.0005 J
Acetone	670000	0.0047 B	0.0046 J	R	0.0047 B	0.0047 B
cis-1,2-Dichloroethene	2300	0.00022 U	0.00022 U	0.035 U	0.001	0.0012
Ethylbenzene	25	0.00017 U	0.00018 U	0.78	0.00019 U	0.00018 U
Isopropylbenzene	9900	0.00024 U	0.00024 U	0.16 J	0.00025 U	0.00024 U
Tetrachloroethene	100	0.0014	0.00031 U	0.13 J	0.0033	0.0033
Toluene	47000	0.00027 U	0.00028 U	0.031 J	0.00029 U	0.00028 U
Trichloroethene	6	0.00033 U	0.00034 U	0.046 J	0.0036	0.004
Xylenes, Total	2800	0.00072 U	0.00073 U	5.7	0.00076 U	0.00074 U
2-Methylnaphthalene	3000	0.054 U	0.053 U	0.49	0.055 U	0.055 U
Acenaphthene	45000	0.053 U	0.051 U	0.099 J	0.053 U	0.053 U
Benzo[a]anthracene	2.9	0.0069 U	0.0067 U	0.34	0.0069 U	0.0069 U
Benzo[a]pyrene	0.29	0.0046 U	0.0044 U	0.085	0.0046 U	0.0046 U
Benzo[b]fluoranthene	2.9	0.0055 U	0.0054 U	0.23	0.0056 U	0.0056 U
Benzo[g,h,i]perylene	--	0.039 U	0.038 U	0.051 J	0.039 U	0.039 U
Benzo[k]fluoranthene	29	0.0052 U	0.005 U	0.11	0.0052 U	0.0052 U
Bis(2-ethylhexyl) phthalate	160	0.1 J	0.048 U	0.049 U	0.05 U	0.05 U
Chrysene	290	0.054 U	0.052 U	0.28 J	0.054 U	0.054 U
Dibenz(a,h)anthracene	0.29	0.0045 U	0.0043 U	0.027 J	0.0045 U	0.0045 U
Dibenzofuran	1000	0.056 U	0.054 U	0.096 J	0.056 U	0.056 U
Fluoranthene	30000	0.062 U	0.06 U	0.99	0.062 U	0.062 U
Fluorene	30000	0.063 U	0.061 U	0.13 J	0.063 U	0.063 U
Indeno[1,2,3-cd]pyrene	2.9	0.0059 U	0.0058 U	0.062	0.006 U	0.006 U
Naphthalene	17	0.054 U	0.053 U	0.16 J	0.055 U	0.055 U
Phenanthrene	--	0.065 U	0.063 U	1.1	0.065 U	0.065 U
Pyrene	23000	0.064 U	0.062 U	0.71	0.065 U	0.065 U
4,4'-DDT	8.5	0.002 J	0.00091 U	0.00093 U	0.00094 U	0.00095 U
Aldrin	0.18	0.0016 U	0.0022 J	0.0016 U	0.0017 U	0.0017 U
Endosulfan sulfate	--	0.00096 U	0.00094 U	0.00096 U	0.00097 U	0.00097 U
Endrin	250	0.0015 J	0.001 U	0.001 U	0.0011 U	0.0011 U
Endrin ketone	--	0.0053 J	0.0011 U	0.0011 U	0.0011 U	0.0011 U
gamma-BHC (Lindane)	2.5	0.0024 J	0.00085 U	0.00087 U	0.00088 U	0.00088 U

TABLE 4-5A
Detected Constituents and Geotechnical Results in Vicinity of Former Finish Paint Building and Solvent and Paint Storage Buildings (MIP Area 2) Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Most Stringent EPA Industrial Subsurface Soil Value	B5	B13	B20A	B30	
		9-9.5 MIP2-B5-9-9.5 460-20485-3 11/30/2010	13-14 MIP2-B13-13-14 460-20628-4 12/2/2010	7.5-8.0 MIP2-B20A-7.5-8.0 460-20485-4 11/30/2010	11.5-12.0 MIP2-B30-11.5-12.0 460-20485-5 11/30/2010	11.5-12.0 (Duplicate) MIP-Soil Dup 460-20485-6 11/30/2010
Methoxychlor	4100	0.0044 J	0.00082 U	0.00083 U	0.00084 U	0.00085 U
Aluminum	1100000	6300	6610	6400	6840	5850
Arsenic	3	5.5 L	6.7	5.3 L	5.7 L	5.3 L
Barium	220000	44.2 J	39.7 J	47.9	38.1 J	40.8 J
Beryllium	2300	0.52	0.59	0.55	0.48	0.46
Calcium	--	90.3 J	347 J	27.9 J	310 J	122 J
Chromium	1800000 / 6.3*	10.3 L	11.9	10 L	11.1 L	9.2 L
Cobalt	350	8.9 J	6.6 J	8.9 J	11.9	8.7 J
Copper	47000	12.6	10.8	15.3	13	11.4
Iron	820000	19300	21100	18900	21600	17700
Lead	800	11.1	12.3	11.8	10.7	10.1
Magnesium	--	930 J	1250	943 J	1110 J	937 J
Manganese	26000	529 L	196	657 L	595 L	640 L
Nickel	22000	11.1	12.3	10.5	11.9	10.3
Potassium	--	582 L	717 J	563 L	666 L	527 L
Sodium	--	69.4 B	63.2 U	64.5 U	127 B	111 B
Vanadium	5800	10.5 J	12.5	10.3 J	12.8	10 J
Zinc	350000	28.8	32.7	26.7	29.9	25.8
Cyanide, Total	12	0.12 U	0.2 J	0.29 J	0.13 U	0.13 U
Percent Moisture (%)	--	10.6	8.3	10.2	11.3	11.5
Percent Solids (%)	--	89.4	91.7	89.8	88.7	88.5
TOC	--	2220	612	3270	2340	NA
Total Organic Matter (%)	--	1.4	1.5	1.5	1.4	NA
Fraction Organic Carbon	--	0.81	0.87	0.87	0.81	NA
In Place Density (g/cc)	--	1.92	1.91	1.86	1.92	NA
Ash Content (%)	--	98.6	98.5	98.5	98.6	NA
Moisture Content (%)	--	12.0	10.7	12.3	13.5	NA
Clay (%)	--	17.0	23.3	21.0	21.6	NA
Coarse Sand (%)	--	5.0	5.7	5.8	3.7	NA
Fine Sand (%)	--	22.0	24.6	22.5	25.6	NA
Gravel (%)	--	20.2 J	10.5 J	14.9 J	7.6 J	NA

TABLE 4-5A
Detected Constituents and Geotechnical Results in Vicinity of Former Finish Paint Building and Solvent and Paint Storage Buildings (MIP Area 2) Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Most Stringent EPA Industrial Subsurface Soil Value	B5	B13	B20A	B30	
		9-9.5 MIP2-B5-9-9.5 460-20485-3 11/30/2010	13-14 MIP2-B13-13-14 460-20628-4 12/2/2010	7.5-8.0 MIP2-B20A-7.5-8.0 460-20485-4 11/30/2010	11.5-12.0 MIP2-B30-11.5-12.0 460-20485-5 11/30/2010	11.5-12.0 (Duplicate) MIP-Soil Dup 460-20485-6 11/30/2010
Hydrometer Reading 1 - Percent Finer (% Passing)	--	29.9	38.8	35.7	37.3	NA
Hydrometer Reading 2 - Percent Finer (% Passing)	--	27.3	34.4	32.0	33.0	NA
Hydrometer Reading 3 - Percent Finer (% Passing)	--	23.5	31.1	28.4	28.8	NA
Hydrometer Reading 4 - Percent Finer (% Passing)	--	19.6	27.8	23.5	24.5	NA
Hydrometer Reading 5 - Percent Finer (% Passing)	--	17.0	23.3	21.0	21.6	NA
Hydrometer Reading 6 - Percent Finer (% Passing)	--	11.8	18.9	16.1	15.9	NA
Hydrometer Reading 7 - Percent Finer (% Passing)	--	8.0	10.1	10.0	10.2	NA
Medium Sand (%)	--	11.9	11.1	11.1	13.2	NA
Sand (%)	--	38.9	41.4 J	39.4	42.5	NA
Sieve Size #10 - Percent Finer (% Passing)	--	74.8	83.8 J	79.3	88.7	NA
Sieve Size #100 - Percent Finer (% Passing)	--	48.3	56.3	53.5	58.8	NA
Sieve Size #20 - Percent Finer (% Passing)	--	70.2	79.2	75.0	83.2	NA
Sieve Size #200 - Percent Finer (% Passing)	--	40.9	48.1	45.7	49.9	NA
Sieve Size #4 - Percent Finer (% Passing)	--	79.8 J	89.5 J	85.1 J	92.4 J	NA
Sieve Size #40 - Percent Finer (% Passing)	--	62.9	72.7	68.2	75.5	NA

TABLE 4-5A
Detected Constituents and Geotechnical Results in Vicinity of Former Finish Paint Building and Solvent and Paint Storage Buildings (MIP Area 2) Soil Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Most Stringent EPA Industrial Subsurface Soil Value	B5	B13	B20A	B30	
		9-9.5 MIP2-B5-9-9.5 460-20485-3 11/30/2010	13-14 MIP2-B13-13-14 460-20628-4 12/2/2010	7.5-8.0 MIP2-B20A-7.5-8.0 460-20485-4 11/30/2010	11.5-12.0 MIP2-B30-11.5-12.0 460-20485-5 11/30/2010	11.5-12.0 (Duplicate) MIP-Soil Dup 460-20485-6 11/30/2010
Sieve Size #60 - Percent Finer (% Passing)	--	57.1	63.8	62.5	69.1	NA
Sieve Size #80 - Percent Finer (% Passing)	--	50.0	58.7	55.2	60.8	NA
Sieve Size 0.375 inch - Percent Finer (% Passing)	--	87.0 J	93.5 J	94.5 J	96.1 J	NA
Sieve Size 0.75 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	NA
Sieve Size 1 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	NA
Sieve Size 1.5 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	NA
Sieve Size 2 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	NA
Sieve Size 3 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	NA
Silt (%)	--	23.9	24.8	24.7	28.3	NA

Notes:

All units in mg/kg unless otherwise stated.

* Both Cr[III] and Cr[IV] RSLs provided for chromium.

bgs - below ground surface

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

L - Reported value may be biased low

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-5B
**Detected Constituents in Vicinity of Former Finish Paint Building and Solvent and Paint Storage
Buildings (MIP Area 2) Groundwater Samples**
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	B20A		B30
			2.25 GW-MIP2-B20A 460-20598-6 12/1/2010	2.25 (Duplicate) GW-MP DUP 460-20598-8 12/1/2010	4.71 GW-MIP2-B30 460-20598-7 12/1/2010
1,1,1-Trichloroethane	200	8000	34000	26000	25
1,1,2-Trichloroethane	5	0.28	31 J	29 J	0.1 U
1,1-Dichloroethane	--	2.7	2400	2000	3.6
1,1-Dichloroethene	7	280	4500	3300	12
1,2-Dichloroethane	5	0.17	24 U	24 U	0.42 J
Acetone	--	14000	1600	1600	2.5 U
Benzene	5	0.45	13 U	13 U	0.51 J
Chloroform	80	0.22	15 U	15 U	0.3 J
cis-1,2-Dichloroethene	70	36	20 U	20 U	4.0
Ethylbenzene	700	1.5	35 J	28 J	0.25 U
Tetrachloroethene	5	11	55 J	47 J	30
Toluene	1000	1100	9 U	9 U	0.2 J
Trichloroethene	5	0.49	53 J	18 U	6.3
Xylenes, Total	10000	190	260 J	210 J	0.43 U
1,4-Dioxane	--	0.46	730 L	760 L	13 L
Formaldehyde	--	0.43	34.2 J	37.9 J	11.7 J
2-Methylnaphthalene	--	36	4.5 J	6.9 J	3.5 U
Benzo[a]anthracene	--	0.012	0.27 U	0.3 U	0.73 J
Benzo[a]pyrene	0.2	0.0034	0.18 U	0.2 U	0.42 J
Benzo[b]fluoranthene	--	0.0304	0.21 U	0.23 U	0.58 J
Naphthalene	--	0.17	13	20	4.1 U
Phenanthrene	--	--	4.5 J	5.4 J	4 U

TABLE 4-5B
**Detected Constituents in Vicinity of Former Finish Paint Building and Solvent and Paint Storage
Buildings (MIP Area 2) Groundwater Samples**
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	B20A		B30
			2.25 GW-MIP2-B20A 460-20598-6 12/1/2010	2.25 (Duplicate) GW-MP DUP 460-20598-8 12/1/2010	4.71 GW-MIP2-B30 460-20598-7 12/1/2010
4,4'-DDT	--	0.23	0.037 J	NA	0.010 U
delta-BHC	--	0.025	0.015 J	NA	0.0093 U
Methoxychlor	40	37	0.18	NA	0.013 U
Aluminum	50 to 200	20000	5420	7910	513000
Antimony	6	7.8	4.6 U	4.9 J	23 UL
Arsenic	10	0.052	6.7	8.1	180
Barium	2000	3800	181 J	168 J	3490
Beryllium	4	25	0.94 U	0.94 U	41.2
Calcium	--	--	7760	7430	94900
Chromium	100	22000 / 0.035*	12	12.6	2170
Cobalt	--	6	85.9	83.8	878
Copper	1300	800	35.8	36.3	1150
Iron	300	14000	10200	8710	1160000
Lead	15	15	10.4 B	9.9 B	2460
Magnesium	--	--	6200	5990	110000
Manganese	50	430	9380	9040	64300
Mercury	2	0.63	0.18 U	0.18 U	1.7
Nickel	--	390	40.9	39.1 J	1190
Potassium	--	--	4110 L	3430 L	29700 L
Sodium	20000	--	13300 L	12400 L	9770 L
Vanadium	--	86	5.8 J	6.4 J	575
Zinc	5000	6000	81.8	80.7	3770

TABLE 4-5B
**Detected Constituents in Vicinity of Former Finish Paint Building and Solvent and Paint Storage
Buildings (MIP Area 2) Groundwater Samples**
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs)	Drinking Water MCL	Most Stringent EPA Groundwater RSL	B20A		B30
			2.25 GW-MIP2-B20A 460-20598-6 12/1/2010	2.25 (Duplicate) GW-MP DUP 460-20598-8 12/1/2010	4.71 GW-MIP2-B30 460-20598-7 12/1/2010
Chemical Oxygen Demand (mg/L)	--	--	107	NA	NA
Dissolved Organic Carbon (mg/L)	--	--	9.2	NA	NA
Total Organic Carbon (mg/L)	--	--	8.7 B	NA	NA

Notes:

All units in ug/L unless otherwise stated.

bgs - below ground surface

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

L - Reported value may be biased low

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

* Both Cr[III] and Cr[IV] RSLs provided for chromium.

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-6
Detected Constituents in Groundwater Screening Evaluation Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	HP01			HP02	HP03
			24 GW-HP01-24 460-20090-1 11/16/2010	36 GW-HP01-36 460-20142-2 11/18/2010	48 GW-HP01-48 460-20142-1 11/18/2010	36 GW-HP02-36 460-20628-2 12/2/2010	24 GW-HP03-24 460-20598-3 11/30/2010
1,1,1-Trichloroethane	200	8000	0.73 J	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethane	--	2.7	1.3	0.22 J	0.39 J	0.1 U	0.1 U
1,1-Dichloroethene	7	280	0.77 J	0.4 J	0.56 J	0.14 U	0.14 U
2-Butanone		5600	R	1.9 J	5.5 J	2.6 L	16
2-Hexanone	--	38	0.55 U	0.55 U	0.55 U	0.55 U	1.8 J
4-Methyl-2-pentanone	--	1200	0.68 U	0.68 U	0.68 U	0.68 U	0.81 J
Acetone	--	14000	2.5 U	6.3 J	16	18	90
Benzene	5	0.45	0.13 U	0.49 J	0.85 J	0.13 U	0.84 L
Bromodichloromethane	80	0.13	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
Carbon disulfide	--	810	0.15 U	0.15 U	0.15 U	0.37 J	0.38 J
Carbon tetrachloride	5	0.45	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloroform	80	0.22	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Chloromethane	--	190	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
cis-1,2-Dichloroethene	70	36	7.4	0.78 J	1.3	0.2 U	0.2 U
Ethylbenzene	700	1.5	0.25 U	0.25 U	0.25 U	0.25 U	0.29 L
o-Xylene	--	190	NA	NA	NA	NA	NA
Tetrachloroethene	5	11	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	1000	1100	0.25 J	2	10	0.09 U	6.7 L
trans-1,2-Dichloroethene	100	360	0.19 J	0.14 U	0.14 U	0.14 U	0.14 U
Trichloroethene	5	0.49	210	21	37	0.18 U	0.18 U
Trichlorofluoromethane	--	1100	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	2	0.019	0.91 J	0.13 U	0.13 U	0.13 U	0.13 U
Xylenes, Total	10000	190	0.43 U	0.43 U	0.43 U	0.43 U	0.48 L
Formaldehyde	--	0.43	14.8 J	5.1 J	5 U	NA	49.4 J

TABLE 4-6
Detected Constituents in Groundwater Screening Evaluation Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	HP04				HP05
			28 GW-HP04-28 460-20598-4 12/1/2010	40 GW-HP04-40 460-20598-5 12/1/2010	58 GW-HP04-58 460-20628-1 12/2/2010	58 (Duplicate) GW-HPDUP 460-20628-3 12/2/2010	42 GW-HP05-42 460-20685-3 12/3/2010
1,1,1-Trichloroethane	200	8000	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethane	--	2.7	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	7	280	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
2-Butanone		5600	0.82 U	6.4 J	R	R	R
2-Hexanone	--	38	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U
4-Methyl-2-pentanone	--	1200	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U
Acetone	--	14000	2.5 U	30	2.5 U	2.5 U	2.5 U
Benzene	5	0.45	0.13 U	0.28 J	0.13 U	0.13 U	0.13 U
Bromodichloromethane	80	0.13	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
Carbon disulfide	--	810	0.15 J	0.19 J	0.15 U	0.15 U	0.15 U
Carbon tetrachloride	5	0.45	0.19 U	0.19 U	0.35 J	0.37 J	0.19 U
Chloroform	80	0.22	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Chloromethane	--	190	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
cis-1,2-Dichloroethene	70	36	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	700	1.5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	NA	NA	NA	NA	NA
Tetrachloroethene	5	11	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	1000	1100	0.91 J	0.37 J	0.09 U	0.09 U	0.09 U
trans-1,2-Dichloroethene	100	360	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Trichloroethene	5	0.49	0.32 J	0.94 J	0.2 J	0.2 J	0.18 U
Trichlorofluoromethane	--	1100	0.16 U	0.4 J	1.2	1.6	0.16 U
Vinyl chloride	2	0.019	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Xylenes, Total	10000	190	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Formaldehyde	--	0.43	49.2 J	125 J	31.7 J	9.72 J	15.2 J

TABLE 4-6
Detected Constituents in Groundwater Screening Evaluation Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	HP07			HP08	
			32 - 35 GWE-HP07-32-35 460-28269-3 6/29/2011	60 - 63 GWE-HP07-60-63 460-28269-2 6/29/2011	74 - 77 GWE-HP07-74-77 460-28269-1 6/29/2011	55 - 58 GWE-HP08-55-58 460-28002-2 6/22/2011	60 - 63 GWE-HP08-60-63 460-28002-1 6/22/2011
1,1,1-Trichloroethane	200	8000	0.25 U				
1,1-Dichloroethane	--	2.7	0.1 U				
1,1-Dichloroethene	7	280	0.14 U				
2-Butanone		5600	R	R	R	0.82 U	0.82 U
2-Hexanone	--	38	0.55 U	0.55 U	0.55 U	R	R
4-Methyl-2-pentanone	--	1200	0.68 U				
Acetone	--	14000	11	11	11	R	R
Benzene	5	0.45	0.13 U				
Bromodichloromethane	80	0.13	0.67 J	0.98 J	1	0.44 J	1.3
Carbon disulfide	--	810	0.15 U	0.15 U	0.15 U	0.15 U	0.17 J
Carbon tetrachloride	5	0.45	0.19 U				
Chloroform	80	0.22	10	9.4	10	6	14
Chloromethane	--	190	0.21 U	0.67 J	0.66 J	0.21 U	0.21 U
cis-1,2-Dichloroethene	70	36	0.2 U				
Ethylbenzene	700	1.5	0.25 U				
o-Xylene	--	190	0.17 J	0.15 U	0.15 U	0.15 U	0.15 U
Tetrachloroethene	5	11	0.2 U				
Toluene	1000	1100	0.2 J	0.14 J	0.15 J	140	170
trans-1,2-Dichloroethene	100	360	0.14 U				
Trichloroethene	5	0.49	0.18 U				
Trichlorofluoromethane	--	1100	0.16 U	0.16 U	0.16 U	1.3 J	0.21 J
Vinyl chloride	2	0.019	0.13 U				
Xylenes, Total	10000	190	0.43 U				
Formaldehyde	--	0.43	22.3 J	29.1 J	27.4 J	5 U	5 U

TABLE 4-6
Detected Constituents in Groundwater Screening Evaluation Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	HP09				HP11
			30 - 33 GWE-HP09-30-33 460-27896-4 06/20/2011	47 - 50 GWE-HP09-47-50 460-27896-3 06/20/2011	75 - 78 GWE-HP09-75-78 460-27896-1 06/20/2011	75 - 78 (Duplicate) GWE-HP99-75-78 460-27896-2 06/20/2011	32 GW-HP11-32 460-21317-3 12/16/2010
1,1,1-Trichloroethane	200	8000	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethane	--	2.7	0.1 U	0.1 U	0.1 U	0.1 U	0.56 J
1,1-Dichloroethene	7	280	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
2-Butanone		5600	0.82 U	0.82 U	1.6 J	0.82 U	1.2 J
2-Hexanone	--	38	R	R	R	R	0.55 U
4-Methyl-2-pentanone	--	1200	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U
Acetone	--	14000	R	R	8.3 J	7.9 J	21 J
Benzene	5	0.45	0.13 U	0.13 U	0.13 U	0.13 U	0.49 J
Bromodichloromethane	80	0.13	0.093 U	0.39 J	0.45 J	0.43 J	0.093 U
Carbon disulfide	--	810	0.15 U	0.15 U	0.15 U	0.15 U	0.81 J
Carbon tetrachloride	5	0.45	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloroform	80	0.22	3.7	8.5	19	19	0.15 U
Chloromethane	--	190	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
cis-1,2-Dichloroethene	70	36	0.2 U	0.2 U	0.2 U	0.2 U	2.9
Ethylbenzene	700	1.5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.15 U	0.15 U	0.15 U	0.15 U	NA
Tetrachloroethene	5	11	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	1000	1100	0.090 U	0.090 U	0.18 J	0.16 J	0.57 J
trans-1,2-Dichloroethene	100	360	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Trichloroethene	5	0.49	0.18 U	0.18 U	0.18 U	0.18 U	15
Trichlorofluoromethane	--	1100	0.28 J	0.20 J	0.16 U	0.16 U	0.16 U
Vinyl chloride	2	0.019	0.13 U	0.13 U	0.13 U	0.13 U	0.62 J
Xylenes, Total	10000	190	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Formaldehyde	--	0.43	5 U	5 U	5 U	5 U	98.5 J

TABLE 4-6
Detected Constituents in Groundwater Screening Evaluation Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	HP12		HP13		HP14A
			18 GW-HP12-18 460-21317-5 12/17/2010	18 (Duplicate) GW-HP-DUP2 460-21317-4 12/17/2010	40 - 43 GWE-HP13-40-43 460-27739-2 6/15/2011	60 - 63 GWE-HP13-60-63 460-27739-1 6/15/2011	36 GW-HP14A-36 460-21487-4 12/21/2010
1,1,1-Trichloroethane	200	8000	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethane	--	2.7	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	7	280	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
2-Butanone		5600	0.82 U	0.82 U	0.82 U	0.82 U	R
2-Hexanone	--	38	0.55 U	0.55 U	R	R	0.55 U
4-Methyl-2-pentanone	--	1200	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U
Acetone	--	14000	2.5 U	2.5 U	R	R	R
Benzene	5	0.45	0.13 U	0.13 U	0.13 U	0.23 J	0.13 U
Bromodichloromethane	80	0.13	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
Carbon disulfide	--	810	0.15 U	0.15 U	0.15 U	0.18 J	0.15 U
Carbon tetrachloride	5	0.45	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloroform	80	0.22	0.15 U	0.15 U	6.2	14	0.15 U
Chloromethane	--	190	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
cis-1,2-Dichloroethene	70	36	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	700	1.5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	NA	NA	0.15 U	0.15 U	NA
Tetrachloroethene	5	11	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	1000	1100	0.09 U	0.09 U	1.4	1.3	0.09 U
trans-1,2-Dichloroethene	100	360	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Trichloroethene	5	0.49	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Trichlorofluoromethane	--	1100	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	2	0.019	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Xylenes, Total	10000	190	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Formaldehyde	--	0.43	5.31 B	5.62 B	75.7	28.2 J	54.4

TABLE 4-6
Detected Constituents in Groundwater Screening Evaluation Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	HP15	HP17
			20 GW-HP15-20 460-21487-3 12/21/2010	105 GWE-HP17-105 460-43859-3 8/23/2012
1,1,1-Trichloroethane	200	8000	0.25 U	0.06 U
1,1-Dichloroethane	--	2.7	0.1 U	0.13 U
1,1-Dichloroethene	7	280	0.14 U	0.09 U
2-Butanone		5600	R	R
2-Hexanone	--	38	0.55 U	0.5 U
4-Methyl-2-pentanone	--	1200	0.68 U	0.99 U
Acetone	--	14000	R	1400 D
Benzene	5	0.45	0.13 U	0.23 J
Bromodichloromethane	80	0.13	0.093 U	0.12 U
Carbon disulfide	--	810	0.15 U	0.13 U
Carbon tetrachloride	5	0.45	0.19 U	0.06 U
Chloroform	80	0.22	0.15 U	2.8
Chloromethane	--	190	0.21 U	0.1 U
cis-1,2-Dichloroethene	70	36	0.2 U	0.18 U
Ethylbenzene	700	1.5	0.25 U	0.1 U
o-Xylene	--	190	NA	0.13 U
Tetrachloroethene	5	11	0.2 U	0.11 J
Toluene	1000	1100	0.09 U	5.9
trans-1,2-Dichloroethene	100	360	0.14 U	0.13 U
Trichloroethene	5	0.49	0.18 U	0.58 J
Trichlorofluoromethane	--	1100	0.16 U	0.15 U
Vinyl chloride	2	0.019	0.13 U	0.14 U
Xylenes, Total	10000	190	0.43 U	0.36 U
Formaldehyde	--	0.43	7.61 B	5 U

TABLE 4-7A
Detected Constituents in EB-01 Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	EB-01			
			45-65 EB01-45-65 460-22318-2 1/19/2011	69-89 EB01-69-89 460-22209-5 1/18/2011	97-112 EB01-97-112 460-22129-5 1/14/2011	120-140 EB01-120-140 460-22209-4 1/18/2011
Acetone	--	14000	2.5 U	2.5 U	3.4 J	12
Benzene	5	0.45	0.23 J	0.13 U	0.13 U	0.13 U
Ethylbenzene	700	1.5	0.25 U	0.25 U	0.95 J	0.25 U
m&p-Xylene	--	190	0.51 J	0.29 U	3.8	0.29 U
Methylene Chloride	5	11	0.24 JB	0.19 U	0.19 U	0.25 JB
o-Xylene	--	190	0.23 J	0.15 U	1.2	0.15 U
Toluene	1000	1100	80	1.7	17	12
Trichloroethene	5	0.49	0.19 J	0.86 J	0.18 U	0.18 U
Trichlorofluoromethane	--	1100	0.16 U	0.16 U	0.16 U	0.16 U
Xylenes, Total	10000	190	0.74 J	0.43 U	5.0	0.43 U
Formaldehyde	--	0.43	5 U	5 U	65.5	31.8 J
Bis(2-ethylhexyl) phthalate	6	5.6	8.1 J	2.5 U	9.9 J	9.6 J
Endrin aldehyde	--	--	0.054	0.0091 U	0.0091 U	NA
Aluminum	50 to 200	20000	505 B	87 U	103 J	537
Barium	2000	3800	71.8 J	93.5 J	58.2 J	51.9 J
Calcium	--	--	33600 B	43400 B	57700 B	56200 B
Chromium	100	22000 / 0.035*	16.7	3.2 U	8.8 J	11.5
Copper	1300	800	16.1 JB	3.6 U	8.6 JB	42.5
Iron	300	14000	5600	529	7540	7390
Lead	15	15	3.4 J	2.8 U	3.0 J	2.8 U
Magnesium	--	--	4420 J	4400 JB	6180	6210 B
Manganese	50	430	325	460 B	355	263 B
Nickel	--	390	20.6 J	4.2 J	10.7 J	11.3 J
Potassium	--	--	1450 J	1140 J	1290 J	1350 J
Sodium	20,000	--	13600 B	10200	19100	17100
Zinc	5000	6000	172	58.7	145	291

TABLE 4-7A
Detected Constituents in EB-01 Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	EB-01			
			140-160 EB01-140-160 460-22209-3 1/17/2011	165-180 EB01-165-180 460-22129-3 1/13/2011	165-180 (Duplicate) EB011-265-280 460-22129-4 1/13/2011	170-180 EB01-170-180 460-22022-2 1/11/2011
Acetone	--	14000	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	5	0.45	0.13 U	0.13 U	0.13 U	0.13 U
Ethylbenzene	700	1.5	0.25 U	0.57 J	0.58 J	0.25 U
m&p-Xylene	--	190	0.29 U	2.5	2.3	0.29 U
Methylene Chloride	5	11	0.3 JB	0.19 U	0.26 J	0.31 J
o-Xylene	--	190	0.15 U	0.62 J	0.50 J	0.15 U
Toluene	1000	1100	0.71 J	4.5	3.9	19
Trichloroethene	5	0.49	0.20 J	0.46 J	0.51 J	0.29 J
Trichlorofluoromethane	--	1100	0.16 U	0.21 J	0.23 J	0.16 U
Xylenes, Total	10000	190	0.43 U	3.1	2.8 J	0.43 U
Formaldehyde	--	0.43	5 U	5 U	5 U	5 U
Bis(2-ethylhexyl) phthalate	6	5.6	2.5 U	2.6 J	2.5 U	2.5 U
Endrin aldehyde	--	--	0.009 U	0.0091 U	0.0091 U	0.0095 U
Aluminum	50 to 200	20000	87 U	159 J	159 J	87 U
Barium	2000	3800	59.9 J	28.8 J	27.1 J	48.6 J
Calcium	--	--	49800 B	61500 B	62400 B	53900
Chromium	100	22000 / 0.035*	3.2 U	3.2 U	3.2 U	3.2 U
Copper	1300	800	10.1 J	12.4 JB	12.2 JB	4.1 J
Iron	300	14000	704	2550	2130	1100
Lead	15	15	2.8 U	5.4	5.2	2.8 U
Magnesium	--	--	5990 B	5470	5510	5990
Manganese	50	430	215 B	90.8	79.4	195
Nickel	--	390	3.5 U	3.5 U	3.5 U	3.5 U
Potassium	--	--	1120 J	939 J	849 J	1020 J
Sodium	20,000	--	20600	10400	10200	18400
Zinc	5000	6000	77.5	63.0	54.9	67.0

TABLE 4-7B
Detected Constituents in EB-02 Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs)	Drinking Water MCL	Most Stringent EPA Groundwater RSL	EB-02				
			120 EB02-120 460-35151-1 12/22/2011	126 - 136 EB02-126-136 460-35114-3 12/21/2011	126 - 136 (Duplicate) PDUP-132011 460-35114-4 12/21/2011	137 - 152 EB02-137-152 460-35114-2 12/21/2011	152 EB02-152 460-35114-1 12/20/2011
1,1,1-Trichloroethane	200	8000	2.1	2.5	2.5	0.72 J	0.72 J
1,1-Dichloroethene	7	280	0.76 J	0.75 J	0.75 J	0.19 J	0.2 J
1,4-Dichlorobenzene	75	0.48	0.15 U	0.15 U	0.15 U	0.86 J	1
cis-1,2-Dichloroethene	70	36	0.2 J	0.2 J	0.2 U	0.2 U	0.2 U
m&p-Xylene	--	190	0.29 U	0.29 U	0.29 U	0.35 J	0.84 J
o-Xylene	--	190	0.15 U	0.15 U	0.15 U	0.15 U	0.31 J
Tetrachloroethene	5	11	0.2 U	0.21 J	0.23 J	0.2 U	0.2 U
Toluene	1000	1100	25	1.7	1.6	83	58
Trichloroethene	5	0.49	70	82	81	42	40
Xylenes, Total	10000	190	0.43 U	0.43 U	0.43 U	0.43 U	1.1 J

Notes:

All units in ug/L.

bgs - below ground surface

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7C
Detected Constituents in EB-03 Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	EB-03			
			65-73 EB03-65-73 460-22348-3 1/21/2011	73-93 EB03-73-93 460-22544-3 1/26/2011	93-113 EB03-93-113 460-22453-5 1/25/2011	108-118 EB03-108-118 460-22348-2 1/21/2011
Benzene	5	0.45	0.21 J	0.13 U	0.13 U	0.13 U
Chloroform	80	0.22	0.15 U	0.15 U	0.15 U	0.15 U
Dichlorodifluoromethane	--	200	0.74 J	0.41 J	0.29 U	0.85 J
Ethylbenzene	700	1.5	0.25 U	0.25 U	0.25 U	0.25 U
m&p-Xylene	--	190	0.62 J	0.29 U	0.29 U	0.29 U
Methylene Chloride	5	11.4	0.25 JB	0.19 U	0.37 J	0.22 JB
o-Xylene	--	190	0.22 J	0.15 U	0.15 U	0.15 U
Toluene	1000	1100	48	3.2	0.53 J	5.4
Trichloroethene	5	0.49	8.0	16	21	9.7
Trichlorofluoromethane	--	1100	0.45 J	0.22 J	0.16 U	0.30 J
Xylenes, Total	10000	190	0.84 J	0.43 U	0.43 U	0.43 U
Formaldehyde	--	0.43	114	5 U	5 U	5 U

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7C
Detected Constituents in EB-03 Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	EB-03			
			118-138 EB03-118-138 460-22453-4 1/25/2011	143-153 EB03-143-153 460-22318-4 1/20/2011	163-183 EB03-163-183 460-22453-2 1/24/2011	183-193 EB03-183-193 460-22318-3 1/20/2011
Benzene	5	0.45	0.13 U	0.25 J	0.13 U	0.24 J
Chloroform	80	0.22	0.16 J	0.22 J	0.15 U	0.15 U
Dichlorodifluoromethane	--	200	0.36 J	0.54 J	0.53 J	0.64 J
Ethylbenzene	700	1.5	0.25 U	0.44 J	0.25 U	0.25 U
m&p-Xylene	--	190	0.29 U	1.1 J	0.29 U	0.86 J
Methylene Chloride	5	11.4	0.34 J	0.25 JB	0.19 U	0.30 JB
o-Xylene	--	190	0.15 U	0.40 J	0.15 U	0.37 J
Toluene	1000	1100	0.86 J	76	15	6.8
Trichloroethene	5	0.49	5.6	4.5	1.9	2.9
Trichlorofluoromethane	--	1100	0.48 J	0.82 J	1.2	1.0
Xylenes, Total	10000	190	0.43 U	1.5 J	0.43 U	1.2 J
Formaldehyde	--	0.43	5 U	13.1 J	5 U	8.58 J

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7D
Detected Constituents in EB-04 Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	EB-04			
			114 - 129 EB04-114-129 460-32905-2 10/25/2011	135 - 150 EB04-135-150 460-32905-1 10/25/2011	135 - 145 EB04-135-145 460-33889-2 11/17/2011	145 EB04-145 460-33889-1 11/17/2011
1,1,1-Trichloroethane	200	8000	3	0.25 U	0.47 J	0.25 U
1,1-Dichloroethane	--	2.7	0.1 U	0.1 U	0.2 J	0.19 J
1,1-Dichloroethene	7	280	1.2	0.24 J	0.14 U	0.25 J
Benzene	5	0.45	0.13 U	0.13 U	0.13 U	0.22 J
cis-1,2-Dichloroethene	70	36	0.2 U	0.2 U	0.27 J	0.26 J
Ethylbenzene	700	1.5	0.25 U	0.25 U	0.25 U	0.44 J
m&p-Xylene	--	190	0.29 U	0.6 J	0.68 J	0.85 J
o-Xylene	--	190	0.15 U	0.18 J	0.28 J	0.41 J
Tetrachloroethene	5	11	0.23 J	0.2 U	0.2 U	0.2 U
Toluene	1000	1100	3.8	84	36	28
Trichloroethene	5	0.49	110	33	41	26
Xylenes, Total	10000	190	0.43 U	0.81 J	0.95 J	1.3 J

Notes:

All units in ug/L.

bgs - below ground surface

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7E
Detected Constituents in MD-01 Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	MD-01		
			43.5 - 60 MD-01-43.5-60 460-33786-1 11/16/2011	60 - 70 MD-01-60-70 460-33786-2 11/16/2011	74 - 89 MD-01-74-89 460-33717-3 11/15/2011
1,1,1-Trichloroethane	200	8000	2.5 U	0.4 J	0.25 U
Tetrachloroethene	5	11	2 U	0.73 J	0.2 U
Toluene	1000	1100	3.4 J	3.9	1.4
Trichloroethene	5	0.49	1300	360	50
Formaldehyde	--	0.43	5.45 JB	10.1 JB	5 U

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7F
Detected Constituents in RMW-01D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-01D			
			138 - 156 RMW-01D-138-156 460-46120-4 10/18/2012	156 - 176 RMW-01D-156-176 460-46120-3 10/18/2012	180 - 200 RMW-01D-180-200 460-46120-2 10/18/2012	205 - 225 RMW-01D-205-225 460-46120-1 10/18/2012
1,1,1-Trichloroethane	200	8000	0.75 J	0.35 J	0.11 J	0.06 U
1,1-Dichloroethene	7	280	0.35 J	0.09 U	0.09 U	0.09 U
Acetone	--	14000	2.7 U	2.7 U	2.7 U	2.7 U
Carbon tetrachloride	5	0.45	0.06 U	0.084 J	0.097 J	0.06 U
Chloroform	80	0.22	0.37 J	0.3 J	0.25 J	0.39 J
cis-1,2-Dichloroethene	70	36	0.3 J	0.18 J	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U
Tetrachloroethene	5	11	0.19 J	0.13 J	0.1 U	0.1 U
Toluene	1000	1100	28	46	15	15
Trichloroethene	5	0.49	110	54	25	21
Trichlorofluoromethane	--	1100	1.7	1.5	1.4	1.3
Formaldehyde	--	0.43	67.4	35.6 J	38.4 J	38 J
Phenol	--	5800	0.84 U	0.84 U	0.84 U	0.81 U

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7F
Detected Constituents in RMW-01D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-01D			
			235 - 255 RMW-01D-235-255 460-46053-4 10/17/2012 15:52:00	265 - 285 RMW-01D-265-285 460-46053-3 10/17/2012 13:00:00	287 - 307 RMW-01D-287-307 460-46053-2 10/17/2012 09:55:00	307 RMW-01D-307 460-46053-1 10/16/2012 14:50:00
1,1,1-Trichloroethane	200	8000	0.14 J	0.060 U	0.060 U	0.060 U
1,1-Dichloroethene	7	280	0.09 U	0.09 U	0.09 U	0.09 U
Acetone	--	14000	2.7 U	12	2.7 U	2.7 U
Carbon tetrachloride	5	0.45	0.13 J	0.060 U	0.060 U	0.060 U
Chloroform	80	0.22	0.24 J	0.37 J	0.39 J	0.56 J
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	1.5	2.1	3.6	0.22 U
Tetrachloroethene	5	11	0.12 J	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	43	44	28	38
Trichloroethene	5	0.49	25	9.1	6	3.1
Trichlorofluoromethane	--	1100	1.9	2.8	5.4	4.9
Formaldehyde	--	0.43	47.9 J	42.1 J	11.4 J	13.8 J
Phenol	--	5800	0.82 U	2.0 J	0.82 U	0.82 U

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7G
Detected Constituents in RMW-02D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs)	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-02D			
			145 - 155 RMW-02D-145-155 460-32905-5 10/26/2011	168 - 178 RMW-02D-168-178 460-32905-4 10/26/2011	168 - 178 (Duplicate) PDup-102011 460-32905-6 10/26/2011	185 - 200 RMW-02D-185-200 460-32905-3 10/26/2011
Carbon tetrachloride	5	0.45	0.38 J	0.4 J	0.44 J	0.55 J
Dichlorodifluoromethane	--	200	1.2	1.2	1.3	1.2
Toluene	1000	1100	0.2 J	0.13 J	0.14 J	0.15 J
Trichloroethene	5	0.49	16	20	20	7.8
Trichlorofluoromethane	--	1100	1.7	2.2	2.3	1.8

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7H
Detected Constituents in RMW-03D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs)	Drinking Water MCL	<i>Most Stringent EPA Groundwater RSL</i>	RMW-03D
			199 - 214
Sample ID			RMW-03D-199-214
Lab Sample No.			460-33889-3
Sampling Date			11/18/2011
Toluene	1000	1100	17
Trichloroethene	5	0.49	1.5
Formaldehyde	--	0.43	5.57 J

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7I
Detected Constituents in RMW-03S Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs)	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-03S				
			78 - 100 RMW-03S-78-100 460-00054175-003 4/12/2013	107 - 117 RMW-03S-107-117 460-00054175-002 4/12/2013	125 - 135 RMW-03S-125-135 460-00054175-001 4/12/2013	140 - 155 RMW-03S-140-155 460-54140-2 4/11/2013	180 - 190 RMW-03S-180-190 460-54140-1 4/11/2013
Toluene	1000	1100	4.9	2.1	26	1.6	0.32 J
Formaldehyde	--	0.43	16.2 J	14.4 J	19 J	9.32 J	13.4 J

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7J
Detected Constituents in RMW-06D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-06D				
			152 - 162 RMW-06D-152-162 460-33317-1 11/4/2011	162 - 179 RMW-06D-162-179 460-33269-2 11/3/2011	179 - 194 RMW-06D-179-194 460-33269-1 11/3/2011	180 - 190 RMW-06D-180-190 460-34173-1 11/30/2011	190 RMW-06D-190 460-34121-3 11/29/2011
1,1,1-Trichloroethane	200	8000	0.87 J	0.34 J	0.85 J	0.75 J	1
1,1-Dichloroethene	7	280	0.45 J	0.32 J	0.53 J	0.14 U	0.61 J
Acetone	--	14000	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	5	0.45	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloroform	80	0.22	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
cis-1,2-Dichloroethene	70	36	0.2 U	0.2 U	0.2 U	0.23 J	0.36 J
Dichlorodifluoromethane	--	200	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Tetrachloroethene	5	11	0.26 J	0.2 U	0.27 J	0.2 U	0.33 J
Toluene	1000	1100	7.5	0.51 J	0.48 J	1.7	0.32 J
Trichloroethene	5	0.49	140	65	160	110	160
Trichlorofluoromethane	--	1100	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Phenol	--	5800	0.85 U	0.81 U	0.81 U	0.81 U	0.81 U

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA

Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7J
Detected Constituents in RMW-06D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs)	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-06D				
			226 - 246 RMW-06D-226-246 460-43904-3 8/24/2012	246 - 261 RMW-06D-246-261 460-43849-4 8/22/2012	265 - 280 RMW-06D-265-280 460-43849-3 8/22/2012	285 - 305 RMW-06D-285-305 460-43904-2 8/24/2012	305 - EOB RMW-06D-305-EOB 460-43859-2 8/23/2012
1,1,1-Trichloroethane	200	8000	0.45 J	0.42 J	0.54 J	0.29 J	0.39 J
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	0.17 J	0.15 J
Acetone	--	14000	2.7 U	2.7 U	2.7 U	7	2.7 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.13 J	0.080 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.77 J	0.29 J	0.55 J
Chloroform	80	0.22	0.080 U	0.080 U	0.13 J	0.080 U	0.11 B
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.35 J	0.21 J	0.19 J
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	1.9	0.22 U	7.3
Tetrachloroethene	5	11	0.12 J	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	19	10	36	160	8.4
Trichloroethene	5	0.49	62	59	94	48	66
Trichlorofluoromethane	--	1100	0.26 J	0.33 J	6.8	3.5	8.4
Phenol	--	5800	0.83 U	0.81 U	0.82 U	1.9 J	0.82 U

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA

Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7K
Detected Constituents in RMW-07D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-07D			
			83 RMW-07D-83 460-37674-004 3/7/2012	83-98 RMW-07D-83-98 460-37674-003 3/7/2012	100-115 RMW-07D-100-115 460-37674-002 3/7/2012	118-133 RMW-07D-118-133 460-37674-001 3/7/2012
Chloroform	80	0.22	0.41 J	0.4 J	0.37 J	0.36 J
Dichlorodifluoromethane	--	200	0.22 U	0.41 J	0.49 J	0.66 J
Toluene	1000	1100	1.4	1.7	3.6	9.3
Trichloroethene	5	0.49	0.33 J	0.63 J	0.89 J	0.83 J
Trichlorofluoromethane	--	1100	0.37 J	0.66 J	0.83 J	0.9 J

Notes:

All units in ug/L.

bgs - below ground surface

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7K
Detected Constituents in RMW-07D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-07D		
			141-156 RMW-07D-141-156 460-37675-002 3/6/2012	180-195 RMW-07D-180-195 460-37675-001 3/6/2012	180-195 (Duplicate) PDup-030212 460-37675-003 3/6/2012
Chloroform	80	0.22	0.37 J	0.38 J	0.38 J
Dichlorodifluoromethane	--	200	0.75 J	0.37 J	0.32 J
Toluene	1000	1100	29	15	16
Trichloroethene	5	0.49	0.72 J	0.63 J	0.69 J
Trichlorofluoromethane	--	1100	1.2	0.59 J	0.62 J

Notes:

All units in ug/L.

bgs - below ground surface

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7L
Detected Constituents in RMW-08D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs)	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-08D			
			128 - 143 RMW-08D-128-143 460-33005-4 10/28/2011	143 - 153 RMW-08D-143-153 460-33005-2 10/27/2011	160 - 175 RMW-08D-160-175 460-33005-3 10/28/2011	175 - 185 RMW-08D-175-185 460-33005-1 10/27/2011
Carbon tetrachloride	5	0.45	0.57 J	0.43 J	0.31 J	0.25 J
Dichlorodifluoromethane	--	200	2.6	2.2	3.7	4
Toluene	1000	1100	0.24 J	1.4	2.4	1.5
Trichloroethene	5	0.49	10	5.3	2.5	2
Trichlorofluoromethane	--	1100	12	8.6	19	20

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7M
Detected Constituents in RMW-09D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-09D					
			90 - 105 RMW-09D-90-105 460-33315-2 11/2/2011	105 - 115 RMW-09D-105-115 460-33315-1 11/2/2011	116 - 126 RMW-09D-116-126 460-33282-2 11/1/2011	130 - 140 RMW-09D-130-140 460-33282-1 11/1/2011	144 - 159 RMW-09D-144-159 460-36224-003 1/26/2012	160 - 175 RMW-09D-160-175 460-36224-002 1/26/2012
1,1,1-Trichloroethane	200	8000	0.52 J	0.34 J	0.32 J	0.25 U	0.44 J	0.25 U
1,2-Dichlorobenzene	600	300	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	5	0.45	0.27 J	0.19 U	0.19 U	0.19 U	0.26 J	0.19 U
Chloroform	80	0.22	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Dichlorodifluoromethane	--	200	4.2	5	1.5	5.1	6	8.8
Ethylbenzene	700	1.5	0.25 U	0.25 U	0.31 J	0.25 U	0.25 U	0.25 U
m&p-Xylene	--	190	0.29 U	0.29 J	0.96 J	0.39 J	0.29 U	0.29 U
o-Xylene	--	190	0.15 U	0.15 U	0.21 J	0.15 U	0.15 U	0.15 U
Toluene	1000	1100	0.15 J	1	4.5	3.7	2.2	8.6
Trichloroethylene	5	0.49	75	48	44	25	49	9.1
Trichlorofluoromethane	--	1100	12	10	4.9	7.2	9.1	9.3
Xylenes, Total	10000	190	0.43 U	0.43 U	1.2 J	0.43 U	0.43 U	0.43 U
Formaldehyde	--	0.43	5 U	5 U	5 U	5 U	5 U	5 U
Phenol	--	5800	0.85 U	0.85 U	0.81 U	0.81 U	0.83 U	0.83 U

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7M
Detected Constituents in RMW-09D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-09D				
			175 - 195 RMW-09D-175-195 460-36224-001 1/25/2012	190 - 205 RMW-09D-190-205 460-39246-004 4/18/2012	205 - 220 RMW-09D-205-220 460-39246-003 4/17/2012	220 - 235 RMW-09D-220-235 460-39246-002 4/17/2012	235 RMW-09D-235 460-39246-001 4/17/2012
1,1,1-Trichloroethane	200	8000	0.25 U	0.28 J	0.26 J	0.3 J	0.25 J
1,2-Dichlorobenzene	600	300	0.19 J	0.21 U	0.21 U	0.21 U	0.21 U
Carbon tetrachloride	5	0.45	0.19 U	0.06 U	0.11 J	0.06 U	0.06 U
Chloroform	80	0.22	0.15 U	0.22 J	0.63 J	0.82 J	0.97 J
Dichlorodifluoromethane	--	200	0.29 U	0.22 U	0.22 U	0.22 U	0.22 U
Ethylbenzene	700	1.5	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
m&p-Xylene	--	190	0.6 J	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.21 J	0.13 U	0.13 U	0.13 U	0.13 U
Toluene	1000	1100	15	8	1.5	2.2	0.45 J
Trichloroethene	5	0.49	14	40	41	47	43
Trichlorofluoromethane	--	1100	0.16 U	7.3	8.2	8	6.3
Xylenes, Total	10000	190	0.81 J	0.36 U	0.36 U	0.36 U	0.36 U
Formaldehyde	--	0.43	5 U	38.5 J	5 U	5 U	5 U
Phenol	--	5800	0.83 U	0.82 U	0.82 U	0.82 U	2.1 J

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7N
Detected Constituents in RMW-10D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-10D			
			171 RMW-10D-171 460-38244-004 3/22/2012	171 - 186 RMW-10D-171-186 460-38244-003 3/22/2012	186 - 201 RMW-10D-186-201 460-38244-002 3/22/2012	205 RMW-10D-205 460-38244-001 3/21/2012
Benzene	5	0.45	0.08 U	0.08 U	0.08 U	0.093 J
Chloroform	80	0.22	0.13 J	0.11 J	0.12 J	0.11 J
Dichlorodifluoromethane	--	200	3.7	2.9	3.2	2.7
Toluene	1000	1100	11	13	230	320
Trichloroethene	5	0.49	12	6.4	8.3	6.6
Trichlorofluoromethane	--	1100	5.6	4.5	4.8	3.4
Phenol	--	5800	0.83 U	0.83 U	3 J	4.4 J

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7O
Detected Constituents in RMW-11D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs)	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-11D				
			90 - 105 RMW-11D-90-105 460-33981-2 11/22/2011	107 - 117 RMW-11D-107-117 460-34121-2 11/28/2011	117 - 127 RMW-11D-117-127 460-34121-1 11/28/2011	127-137 RMW-11D-127-137 460-33981-3 11/22/2011	143-158 RMW-11D-143-158 460-33981-1 11/21/2011
Chloroform	80	0.22	0.44 J	0.54 J	0.41 J	0.33 J	0.29 J
Dichlorodifluoromethane	--	200	0.57 J	0.29 U	0.29 U	0.29 U	0.29 U
Ethylbenzene	700	1.5	0.25 U	0.34 J	0.44 J	0.25 U	0.25 U
m&p-Xylene	--	190	0.29 U	0.9 J	1.2 J	0.87 J	0.39 J
o-Xylene	--	190	0.15 U	0.21 J	0.25 J	0.19 J	0.15 U
Toluene	1000	1100	3	64	75	53	11
Trichloroethene	5	0.49	24	25	15	12	9
Trichlorofluoromethane	--	1100	2.8	2.6	1.3	0.7 J	0.65 J
Xylenes, Total	10000	190	0.43 U	1.1 J	1.5 J	1.1 J	0.43 U

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7P
Detected Constituents in RMW-12D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-12D			
			73 RMW-12D-73 460-33617-1 11/11/2011	75 - 90 RMW-12D-75-90 460-33559-6 11/9/2011	90 - 105 RMW-12D-90-105 460-33559-5 11/9/2011	106 - 121 RMW-12D-106-121 460-33559-4 11/9/2011
Chloroform	80	0.22	0.15 U	0.15 U	0.24 J	0.15 U
Toluene	1000	1100	2.3	2.6	5.9	9.4
Trichloroethene	5	0.49	6.1	1.5	3.9	4.2
Trichlorofluoromethane	--	1100	1.3	0.43 J	0.93 J	0.89 J
Formaldehyde	--	0.43	8.94 J	5.94 J	5 U	5.36 J

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA

Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7P
Detected Constituents in RMW-12D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs)	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-12D		
			122 - 132 RMW-12D-122-132 460-33559-2 11/9/2011	122 - 132 PDup-112011 (Duplicate) 460-33559-3 11/9/2011	136 - 146 RMW-12D-136-146 460-33559-1 11/9/2011
Chloroform	80	0.22	0.15 U	0.15 U	0.15 U
Toluene	1000	1100	1.6	1.6	2.8
Trichloroethene	5	0.49	4	4	4.3
Trichlorofluoromethane	--	1100	1.4	1.4	1.4
Formaldehyde	--	0.43	5.13 J	5 U	5.29 J

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA

Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7Q
Detected Constituents in RMW-13D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs)	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-13D	
			171 - 181 RMW-13D-171-181 460-33717-2 11/15/2011	183 - 198 RMW-13D-183-198 460-33717-1 11/14/2011
Dichlorodifluoromethane	--	200	1.5	0.29 U
Toluene	1000	1100	5.3	3.2
Trichloroethene	5	0.49	7.6	11
Trichlorofluoromethane	--	1100	4.6	6.3

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-7R
Detected Constituents in RMW-14D Packer Groundwater Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-14D			
			66 - 81 RMW-14D-66-81 460-33444-3 11/8/2011	82 - 92 RMW-14D-82-92 460-33444-4 11/8/2011	92 - 107 RMW-14D-92-107 460-33444-2 11/8/2011	110 - 125 RMW-14D-110-125 460-33444-1 11/7/2011
Toluene	1000	1100	280	100	3.4	11
Trichlorofluoromethane	--	1100	0.25 J	0.16 U	0.38 J	0.16 U
Phenol	--	5800	3.7 J	0.81 U	0.81 U	0.81 U

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-8A
Detected Constituents in Surface Water [High Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Surface Water Value	SW01	SW02	SW02	SW03	SW04	SW05	SW06	SW07	SW08	SW09
Placement		On-Site Pond	On-Site Pond	On-Site Pond	On-Site Pond	On-Site Pond	Watering Run				
Sample ID		SW01-050511	SW02-050511	Dup01 (Duplicate)	SW03-050511	SW04-050511	SW05-050511	SW06-050511	SW07-050511	SW08-050511	SW09-050511
Lab Sample No.		460-26568-3	460-26568-4	460-26568-1	460-26568-5	460-26568-6	460-26568-9	460-26568-10	460-26568-13	460-26568-14	460-26568-16
Sampling Date		5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011
1,1,1-Trichloroethane	11	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Butanone	14000	R	R	R	R	R	R	R	R	R	R
Acetone	1500	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dichlorodifluoromethane	2000	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Trichloroethylene	0.5	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.5 J
Trichlorofluoromethane	11000	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Anthracene	0.012	0.016 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.016 U	0.016 U	0.016 U	0.016 U
Butyl benzyl phthalate	19	0.21 J	0.54 J	0.68 J	0.16 J	0.16 U	NA	NA	NA	NA	NA
Di-n-butyl phthalate	19	0.13 U	0.14 U	0.15 J	0.14 U	0.14 U	NA	NA	NA	NA	NA
Fluoranthene	0.04	0.017 U	0.039 J	0.018 U	0.018 U	0.018 U	NA	NA	NA	NA	NA
Pyrene	20	0.017 U	0.038 J	0.019 J	0.017 U	0.017 U	NA	NA	NA	NA	NA
delta-BHC	0.25	0.041 J	0.018 U	0.018 U	0.038 J	0.018 U	NA	NA	NA	NA	NA
Endosulfan I	0.051	0.051 J	0.10	0.039 U	0.10	0.039 U	NA	NA	NA	NA	NA
Aluminum	87	107 B	176 B	193 B	121 B	142 B	NA	NA	NA	NA	NA
Barium	4	25.3 B	12.4 B	12.4 B	13.6 B	14.6 B	NA	NA	NA	NA	NA
Beryllium	0.66	0.23 U	0.35 B	0.26 B	0.28 B	0.31 B	NA	NA	NA	NA	NA
Calcium	116000	40600	25700	25100	27500	24900	NA	NA	NA	NA	NA
Cobalt	23	0.4 U	0.5 B	0.4 U	0.4 U	0.4 U	NA	NA	NA	NA	NA
Copper	9	3.5 B	3.6 B	3.8 B	3.4 B	3.4 B	NA	NA	NA	NA	NA
Iron	300	123	229	239	184	175	NA	NA	NA	NA	NA
Lead	2.5	1.3 U	1.3 U	1.3 U	1.8 B	1.3 B	NA	NA	NA	NA	NA
Magnesium	82000	1830 B	1020 B	994 B	1130 B	1060 B	NA	NA	NA	NA	NA
Manganese	50	159	22.2	21	18.5	15.2	NA	NA	NA	NA	NA
Nickel	52	1.6 B	1.6 U	1.6 U	1.6 U	1.6 U	NA	NA	NA	NA	NA
Potassium	53000	1880 B	1210 B	1150 B	1260 B	1220 B	NA	NA	NA	NA	NA
Silver	3.2	0.68 U	1.1 B	1.3 B	0.68 U	0.7 B	NA	NA	NA	NA	NA
Sodium	940	1410 B	617 B	687 B	933 B	788 B	NA	NA	NA	NA	NA
Thallium	0.24	3.2 B	2.4 U	2.4 U	2.4 U	2.4 U	NA	NA	NA	NA	NA
Zinc	120	127	44.7	43	46.5	41.7	NA	NA	NA	NA	NA

TABLE 4-8A
Detected Constituents in Surface Water [High Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Surface Water Value	SW01	SW02	SW02	SW03	SW04	SW05	SW06	SW07	SW08	SW09
Placement		On-Site Pond	On-Site Pond	On-Site Pond	On-Site Pond	On-Site Pond	Watering Run				
Sample ID		SW01-050511	SW02-050511	Dup01 (Duplicate)	SW03-050511	SW04-050511	SW05-050511	SW06-050511	SW07-050511	SW08-050511	SW09-050511
Lab Sample No.		460-26568-3	460-26568-4	460-26568-1	460-26568-5	460-26568-6	460-26568-9	460-26568-10	460-26568-13	460-26568-14	460-26568-16
Sampling Date		5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011
Aluminum (Dissolved)	87	19.2 B	50.2 B	39.3 B	15 B	13 B	NA	NA	NA	NA	NA
Barium (Dissolved)	4	18.6 B	12.3 B	12 B	13 B	13.4 B	NA	NA	NA	NA	NA
Beryllium (Dissolved)	0.66	0.31 B	0.33 B	0.3 B	0.3 B	0.28 B	NA	NA	NA	NA	NA
Calcium (Dissolved)	116000	40600	27200	26500	27900	24500	NA	NA	NA	NA	NA
Cobalt (Dissolved)	23	0.4 U	0.4 U	0.7 B	0.4 U	0.4 U	NA	NA	NA	NA	NA
Copper (Dissolved)	9	2.7 U	2.9 B	2.8 B	2.9 B	2.8 B	NA	NA	NA	NA	NA
Iron (Dissolved)	300	11.9 U	70.4 B	55.8 B	23.2 B	11.9 U	NA	NA	NA	NA	NA
Magnesium (Dissolved)	82000	1760 B	1070 B	1050 B	1140 B	1020 B	NA	NA	NA	NA	NA
Manganese (Dissolved)	50	6.6 B	7.3 B	7.9 B	4.6 B	3.4 B	NA	NA	NA	NA	NA
Potassium (Dissolved)	53000	1370 B	1100 B	1090 B	1150 B	1100 B	NA	NA	NA	NA	NA
Sodium (Dissolved)	940	1450 B	736 B	618 B	770 B	854 B	NA	NA	NA	NA	NA
Thallium (Dissolved)	0.24	2.4 U	3.7 B	2.4 U	2.4 U	2.4 U	NA	NA	NA	NA	NA
Zinc (Dissolved)	120	95.7 J	37.2 J	48.9 J	38.6 J	33.6 J	NA	NA	NA	NA	NA
Cyanide	3	2.9 B	1.5 U	1.5 U	1.5 U	1.5 U	NA	NA	NA	NA	NA

Notes:

All units in ug/L

bgs - below ground surface

B - Repted value may be wholly or partially due to contamination in an associated laboratory blank

J - Estimated

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8A
Detected Constituents in Surface Water [High Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Surface Water Value	SW10	SW11	SW12	SW13	SW14	SW15	SW16	SW17	SW17	SW18
Placement		Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Seep	Watering Run	Watering Run	Seep	Seep	Watering Run
Sample ID		SW10-050511	SW11-050511	SW12-050511	SW13-050511	SW14-050511	SW15-050511	SW16-050511	SW17-050511	Dup02 (Duplicate)	SW18-050511
Lab Sample No.		460-26568-17	460-26568-18	460-26568-19	460-26568-27	460-26568-28	460-26568-29	460-26568-31	460-26568-30	460-26568-2	460-26568-33
Sampling Date		5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011
1,1,1-Trichloroethane	11	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.27 J	0.25 U
2-Butanone	14000	R	R	3.2 J	3.9 J	R	R	R	R	R	R
Acetone	1500	2.5 U	2.5 U	7.4 J	9.7 J	2.5 U	2.5 U				
Dichlorodifluoromethane	2000	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.43 J	0.38 J	0.29 U
Trichloroethylene	0.5	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	1.3	1	31	30	1.5
Trichlorofluoromethane	11000	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.1	0.97 J	0.16 U
Anthracene	0.012	0.018 U	0.021 U	0.016 U	0.017 U	0.017 U	0.016 U	0.017 U	0.016 U	0.016 U	0.016 U
Butyl benzyl phthalate	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	0.051	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	116000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	82000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	53000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-8A
Detected Constituents in Surface Water [High Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Surface Water Value	SW10	SW11	SW12	SW13	SW14	SW15	SW16	SW17	SW17	SW18
Placement		Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Seep	Watering Run	Watering Run	Seep	Seep	Watering Run
Sample ID		SW10-050511	SW11-050511	SW12-050511	SW13-050511	SW14-050511	SW15-050511	SW16-050511	SW17-050511	Dup02 (Duplicate)	SW18-050511
Lab Sample No.		460-26568-17	460-26568-18	460-26568-19	460-26568-27	460-26568-28	460-26568-29	460-26568-31	460-26568-30	460-26568-2	460-26568-33
Sampling Date		5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011
Aluminum (Dissolved)	87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	116000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium (Dissolved)	82000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	53000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in ug/L

bgs - below ground surface

B - Repted value may be wholly or partially due to contamination in an associated laboratory blank

J - Estimated

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8A
Detected Constituents in Surface Water [High Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Surface Water Value	SW19	SW20	SW21	SW22	SW23	SW24	SW25	SW26	SW27	SW28
Placement		Watering Run	Tributary to Watering Run	Watering Run	Tributary to Watering Run	Seep	Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Watering Run	Tributary to Watering Run
Sample ID		SW19-050511	SW20-050511	SW21-050511	SW22-050511	SW23-050511	SW24-050511	SW25-050511	SW26-050511	SW27-050511	SW28-050511
Lab Sample No.		460-26568-34	460-26568-15	460-26568-20	460-26568-21	460-26568-22	460-26568-23	460-26568-24	460-26568-8	460-26568-11	460-26568-12
Sampling Date		5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011
1,1,1-Trichloroethane	11	0.25 U	0.25 U	0.25 U	0.25 U	0.33 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Butanone	14000	R	R	R	R	R	R	R	R	R	R
Acetone	1500	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dichlorodifluoromethane	2000	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Trichloroethylene	0.5	0.34 J	0.18 U	0.18 U	0.18 U	52	0.55 J	0.18 U	0.18 U	0.18 U	0.18 U
Trichlorofluoromethane	11000	0.16 U	0.16 U	0.16 U	0.16 U	2.1	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Anthracene	0.012	0.017 U	0.017 U	0.016 U	0.016 U	0.018 U	0.016 U	0.016 U	0.016 U	0.024 J	0.046 J
Butyl benzyl phthalate	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	0.051	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	116000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	82000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	53000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-8A
Detected Constituents in Surface Water [High Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Surface Water Value	SW19	SW20	SW21	SW22	SW23	SW24	SW25	SW26	SW27	SW28
Placement		Watering Run	Tributary to Watering Run	Watering Run	Tributary to Watering Run	Seep	Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Watering Run	Tributary to Watering Run
Sample ID		SW19-050511	SW20-050511	SW21-050511	SW22-050511	SW23-050511	SW24-050511	SW25-050511	SW26-050511	SW27-050511	SW28-050511
Lab Sample No.		460-26568-34	460-26568-15	460-26568-20	460-26568-21	460-26568-22	460-26568-23	460-26568-24	460-26568-8	460-26568-11	460-26568-12
Sampling Date		5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011	5/5/2011
Aluminum (Dissolved)	87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	116000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium (Dissolved)	82000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	53000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in ug/L

bgs - below ground surface

B - Repted value may be wholly or partially due to contamination in an associated laboratory blank

J - Estimated

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8A
Detected Constituents in Surface Water [High Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Surface Water Value	SW29	SW30
Placement		Watering Run	Seep
Sample ID		SW29-050511	SW30-050511
Lab Sample No.		460-26568-7	460-26568-32
Sampling Date		5/5/2011	5/5/2011
1,1,1-Trichloroethane	11	0.25 U	0.25 U
2-Butanone	14000	R	R
Acetone	1500	2.5 U	2.5 U
Dichlorodifluoromethane	2000	0.29 U	0.29 U
Trichloroethene	0.5	0.18 U	0.18 U
Trichlorofluoromethane	11000	0.16 U	0.16 U
Anthracene	0.012	0.017 U	NA
Butyl benzyl phthalate	19	NA	NA
Di-n-butyl phthalate	19	NA	NA
Fluoranthene	0.04	NA	NA
Pyrene	20	NA	NA
delta-BHC	0.25	NA	NA
Endosulfan I	0.051	NA	NA
Aluminum	87	NA	NA
Barium	4	NA	NA
Beryllium	0.66	NA	NA
Calcium	116000	NA	NA
Cobalt	23	NA	NA
Copper	9	NA	NA
Iron	300	NA	NA
Lead	2.5	NA	NA
Magnesium	82000	NA	NA
Manganese	50	NA	NA
Nickel	52	NA	NA
Potassium	53000	NA	NA
Silver	3.2	NA	NA
Sodium	940	NA	NA
Thallium	0.24	NA	NA
Zinc	120	NA	NA

TABLE 4-8A
Detected Constituents in Surface Water [High Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	<i>Most Stringent EPA Surface Water Value</i>	SW29	SW30
Placement		Watering Run	Seep
Sample ID		SW29-050511	SW30-050511
Lab Sample No.		460-26568-7	460-26568-32
Sampling Date		5/5/2011	5/5/2011
Aluminum (Dissolved)	87	NA	NA
Barium (Dissolved)	4	NA	NA
Beryllium (Dissolved)	0.66	NA	NA
Calcium (Dissolved)	116000	NA	NA
Cobalt (Dissolved)	23	NA	NA
Copper (Dissolved)	9	NA	NA
Iron (Dissolved)	300	NA	NA
Magnesium (Dissolved)	82000	NA	NA
Manganese (Dissolved)	50	NA	NA
Potassium (Dissolved)	53000	NA	NA
Sodium (Dissolved)	940	NA	NA
Thallium (Dissolved)	0.24	NA	NA
Zinc (Dissolved)	120	NA	NA
Cyanide	3	NA	NA

Notes:

All units in ug/L

bgs - below ground surface

B - Reported value may be wholly or partially due to contamination in an associated laboratory blank

J - Estimated

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8B
Detected Constituents in Surface Water [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Surface Water Value	SW01	SW02	SW02	SW03	SW06	SW07	SW08	SW09	SW10	SW11
Placement		On-Site Pond	On-Site Pond	On-Site Pond	On-Site Pond	Watering Run	Watering Run	Watering Run	Watering Run	Tributary to Watering Run	Tributary to Watering Run
Sample ID		SW01-082411	SW02-082411	SWDUP01 (Duplicate)	SW03-082411	SW06-082411	SW07-082411	SW08-082411	SW09-082411	SW10-082411	SW11-082411
Lab Sample No.		180-3403-6	180-3403-4	180-3403-2	180-3403-8	180-3403-13 / 180-3419-2	180-3403-3	180-3403-7	180-3403-16	180-3403-5	180-3403-9
Sampling Date	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24; 8/25/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
2-Butanone (MEK)	14000	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U
4-Methyl-2-pentanone (MIBK)	170	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Acetone	1500	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	1.8	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Dichlorodifluoromethane	2000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Methylene Chloride	8	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	2	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Trichloroethene	0.5	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.38 J	0.14 U	0.14 U
Trichlorofluoromethane	11000	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Formaldehyde	4.3	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	9.3 J
Butyl benzyl phthalate	19	0.41 J	0.58 J	0.57 J	0.49 J	NA	NA	NA	NA	NA	NA
Carbazole	--	0.017 U	0.016 U	0.016 U	0.017 U	0.016 U	0.015 U	0.016 U	0.015 U	0.015 U	0.015 U
Diethyl phthalate	210	0.16 U	0.14 U	0.14 U	0.16 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Fluoranthene	0.04	0.055 J	0.016 U	0.016 U	0.041 J	NA	NA	NA	NA	NA	NA
Phenanthrene	0.4	0.061 J	0.042 U	0.042 U	0.050 J	NA	NA	NA	NA	NA	NA
Pyrene	20	0.031 J	0.016 U	0.016 U	0.027 J	NA	NA	NA	NA	NA	NA
Aluminum	87	64 B	72 B	80 B	200 K	730 B	NA	NA	100 B	NA	NA
Antimony	5.6	1.3 B	1.6 B	1.3 U	1.4 B	1.3 U	NA	NA	1.3 U	NA	NA
Barium	4	20 J	12 J	11 J	15 J	33 J	NA	NA	43 J	NA	NA
Beryllium	0.66	0.34 B	0.30 B	0.36 B	0.37 B	0.38 B	NA	NA	0.32 B	NA	NA
Cadmium	0.25	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	NA	NA	0.13 U	NA	NA
Calcium	116000	42000	25000	24000	22000	9300	NA	NA	10000	NA	NA
Chromium	74 / 0.35*	0.57 U	0.57 U	0.57 U	0.57 U	1.2 J	NA	NA	0.57 U	NA	NA
Cobalt	23	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	0.40 U	NA	NA
Copper	9	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	NA	NA	2.7 U	NA	NA
Iron	300	390 B	370 B	340 B	710 B	720	NA	NA	110 B	NA	NA
Lead	2.5	2.3 K	1.5 K	1.3 U	2.1 K	1.3 U	NA	NA	1.3 U	NA	NA
Magnesium	82000	1400 J	840 J	830 J	790 J	2100 J	NA	NA	3000 J	NA	NA
Manganese	50	20	28	25	110	77	NA	NA	100	NA	NA
Nickel	52	1.6 U	1.6 U	1.6 U	1.6 U	1.9 J	NA	NA	1.6 U	NA	NA
Potassium	53000	1600 J	850 J	860 J	1000 J	890 J	NA	NA	860 J	NA	NA
Sodium	940	9200	3500 J	1200 J	550 J	13000	NA	NA	26000	NA	NA
Thallium	0.24	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	NA	NA	2.4 U	NA	NA
Vanadium	20	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	NA	NA	1.9 U	NA	NA
Zinc	120	28	17 J	16 J	20	18 J	NA	NA	19 J	NA	NA

TABLE 4-8B
Detected Constituents in Surface Water [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	SW01	SW02	SW02	SW03	SW06	SW07	SW08	SW09	SW10	SW11
Placement	On-Site Pond	On-Site Pond	On-Site Pond	On-Site Pond	Watering Run	Watering Run	Watering Run	Watering Run	Tributary to Watering Run	Tributary to Watering Run
Sample ID	Most Stringent EPA Surface Water Value	SW01-082411	SW02-082411	SWDUP01 (Duplicate)	SW03-082411	SW06-082411	SW07-082411	SW08-082411	SW09-082411	SW10-082411
Lab Sample No.	180-3403-6	180-3403-4	180-3403-2	180-3403-8	180-3403-13 / 180-3419-2	180-3403-3	180-3403-7	180-3403-16	180-3403-5	180-3403-9
Sampling Date	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24; 8/25/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
Aluminum , Dissolved	87	13 B	15 B	14 B	15 B	49 B	NA	9.7 B	NA	NA
Antimony , Dissolved	5.6	1.3 U	1.3 U	1.3 U	1.3 U	NA	NA	1.3 U	NA	NA
Barium , Dissolved	4	20 J	10 J	10 J	10 J	25 J	NA	NA	43 J	NA
Calcium , Dissolved	116000	44000	26000	26000	23000	9000	NA	NA	11000	NA
Chromium , Dissolved	74 / 0.35*	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	NA	NA	0.57 U	NA
Cobalt , Dissolved	23	0.40 U	0.42 J	0.40 U	0.40 U	0.40 U	NA	NA	0.40 U	NA
Copper , Dissolved	9	2.9 J	2.9 J	2.7 U	2.7 U	2.7 U	NA	NA	2.7 U	NA
Iron , Dissolved	300	61 J	52 J	46 J	64 J	58 J	NA	NA	12 U	NA
Lead , Dissolved	2.5	1.3 U	1.3 U	1.3 U	1.3 U	1.3 J	NA	NA	1.3 U	NA
Magnesium , Dissolved	82000	1400 J	890 J	880 J	810 J	2000 J	NA	NA	3100 J	NA
Manganese , Dissolved	50	3.8 J	2.0 J	1.4 J	1.4 J	6.7 J	NA	NA	83	NA
Nickel , Dissolved	52	7.6 J	2.2 J	1.6 U	1.6 U	1.6 U	NA	NA	1.7 J	NA
Potassium , Dissolved	53000	1600 J	900 J	920 J	1100 J	870 J	NA	NA	910 J	NA
Sodium , Dissolved	940	2900 J	1200 J	1000 J	770 J	13000	NA	NA	26000	NA
Zinc , Dissolved	120	18 K	13 K	14 K	11 K	7.3 K	NA	NA	10 K	NA

Notes:

All units in ug/L

bgs - below ground surface

B - Repted value may be wholly or partially due to contamination in an associated laboratory blank

J - Estimated

K - Reported value may be biased high.

L - Reported value may be biased low.

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

* Both Cr[III] and Cr[IV] RSLs provided for chromium.

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8B
Detected Constituents in Surface Water [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Surface Water Value	SW12	SW13	SW14	SW15	SW16	SW17	SW17	SW18	SW19	SW20
Placement		Tributary to Watering Run SW12-082411	Tributary to Watering Run SW13-082411	Seep SW14-082411	Watering Run SW15-082411	Watering Run SW16-082411	Seep SW17-082411	Seep SW-DUP-02 (Duplicate)	Watering Run SW18-082411	Watering Run SW19-082411	Tributary to Watering Run SW20-082411
Sample ID											
Lab Sample No.		180-3403-18	180-3419-4	180-3419-5	180-3403-17	180-3403-19 / 180-3419-3	180-3419-6	180-3416-25	180-3419-7	180-3419-8	180-3419-9
Sampling Date	8/24/2011	8/25/2011	8/25/2011	8/24/2011	8/24; 8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011
2-Butanone (MEK)	14000	0.55 U	3.1 J	0.55 U	0.55 U	0.55 U	0.55 U	0.85 J	1.3 J	0.55 U	
4-Methyl-2-pentanone (MIBK)	170	0.53 U	0.79 J	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Acetone	1500	2.5 U	31 J	5.8 J	2.5 U	2.5 U	2.5 U	14 J	24 J	3.3 J	
Chloroform	1.8	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Dichlorodifluoromethane	2000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.29 J	0.30 J	0.19 U	0.19 U	0.19 U
Methylene Chloride	8	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	2	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Trichloroethene	0.5	0.14 U	0.14 U	0.14 U	2.7	0.69 J	29	31	1.3	0.37 J	0.14 U
Trichlorofluoromethane	11000	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.73 J	1	0.20 U	0.20 U	0.20 U
Formaldehyde	4.3	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Butyl benzyl phthalate	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	0.016 U	0.015 U	0.015 U	0.015 U	0.016 U	0.016 U	0.015 U	0.016 U	0.053 J	0.015 U
Diethyl phthalate	210	0.99 J	0.14 U	0.14 U	0.14 U	1.3	0.19 J	0.14 U	0.14 U	0.14 U	0.14 U
Fluoranthene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	87	NA	NA	NA	NA	290 K	NA	NA	NA	1400 B	NA
Antimony	5.6	NA	NA	NA	NA	2.7 B	NA	NA	NA	4.1 B	NA
Barium	4	NA	NA	NA	NA	41 J	NA	NA	NA	53 J	NA
Beryllium	0.66	NA	NA	NA	NA	0.41 B	NA	NA	NA	0.39 B	NA
Cadmium	0.25	NA	NA	NA	NA	0.13 U	NA	NA	NA	0.17 J	NA
Calcium	116000	NA	NA	NA	NA	7700	NA	NA	NA	7800	NA
Chromium	74 / 0.35*	NA	NA	NA	NA	0.93 J	NA	NA	NA	1.9 J	NA
Cobalt	23	NA	NA	NA	NA	0.40 U	NA	NA	NA	0.75 J	NA
Copper	9	NA	NA	NA	NA	3.5 J	NA	NA	NA	5.6 J	NA
Iron	300	NA	NA	NA	NA	520	NA	NA	NA	2200	NA
Lead	2.5	NA	NA	NA	NA	2.2 K	NA	NA	NA	3.4 K	NA
Magnesium	82000	NA	NA	NA	NA	1600 J	NA	NA	NA	1900 J	NA
Manganese	50	NA	NA	NA	NA	170	NA	NA	NA	390	NA
Nickel	52	NA	NA	NA	NA	1.6 U	NA	NA	NA	3.0 J	NA
Potassium	53000	NA	NA	NA	NA	1100 J	NA	NA	NA	1200 J	NA
Sodium	940	NA	NA	NA	NA	25000	NA	NA	NA	22000	NA
Thallium	0.24	NA	NA	NA	NA	2.4 U	NA	NA	NA	2.4 U	NA
Vanadium	20	NA	NA	NA	NA	1.9 U	NA	NA	NA	1.9 J	NA
Zinc	120	NA	NA	NA	NA	28	NA	NA	NA	45	NA

TABLE 4-8B
Detected Constituents in Surface Water [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Surface Water Value	SW12	SW13	SW14	SW15	SW16	SW17	SW17	SW18	SW19	SW20	
Placement		Tributary to Waterring Run SW12-082411	Tributary to Waterring Run SW13-082411	Seep	Waterring Run SW14-082411	Waterring Run SW15-082411	Waterring Run SW16-082411	Seep SW17-082411	Seep SW-DUP-02 (Duplicate) 180-3416-25	Waterring Run SW18-082411	Waterring Run SW19-082411	Tributary to Waterring Run SW20-082411
Sample ID												
Lab Sample No.		180-3403-18	180-3419-4	180-3419-5	180-3403-17	180-3403-19 / 180-3419-3	180-3419-6	180-3416-25	180-3419-7	180-3419-8	180-3419-9	
Sampling Date		8/24/2011	8/25/2011	8/25/2011	8/24/2011	8/24; 8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	
Aluminum ,Dissolved	87	NA	NA	NA	NA	57 B	NA	NA	41 B	NA		
Antimony ,Dissolved	5.6	NA	NA	NA	NA	1.8 J	NA	NA	2.3 J	NA		
Barium ,Dissolved	4	NA	NA	NA	NA	32 J	NA	NA	31 J	NA		
Calcium ,Dissolved	116000	NA	NA	NA	NA	7900	NA	NA	7900	NA		
Chromium ,Dissolved	74 / 0.35*	NA	NA	NA	NA	0.66 K	NA	NA	0.57 U	NA		
Cobalt ,Dissolved	23	NA	NA	NA	NA	0.40 U	NA	NA	0.40 U	NA		
Copper ,Dissolved	9	NA	NA	NA	NA	3.7 J	NA	NA	2.9 J	NA		
Iron ,Dissolved	300	NA	NA	NA	NA	100	NA	NA	110	NA		
Lead ,Dissolved	2.5	NA	NA	NA	NA	1.3 U	NA	NA	1.3 U	NA		
Magnesium ,Dissolved	82000	NA	NA	NA	NA	1600 J	NA	NA	1800 J	NA		
Manganese ,Dissolved	50	NA	NA	NA	NA	5.7 J	NA	NA	1.5 J	NA		
Nickel ,Dissolved	52	NA	NA	NA	NA	1.6 U	NA	NA	1.6 U	NA		
Potassium ,Dissolved	53000	NA	NA	NA	NA	1100 J	NA	NA	1100 J	NA		
Sodium ,Dissolved	940	NA	NA	NA	NA	26000	NA	NA	23000	NA		
Zinc ,Dissolved	120	NA	NA	NA	NA	NA	14 K	NA	NA	9.2 K	NA	

Notes:

All units in ug/L

bgs - below ground surface

B - Repted value may be wholly or partially due to contamination in an associated laboratory blank

J - Estimated

K - Reported value may be biased high.

L - Reported value may be biased low.

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

* Both Cr[III] and Cr[IV] RSLs provided for chromium.

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8B
Detected Constituents in Surface Water [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Surface Water Value	SW21	SW22	SW23	SW24	SW25	SW26	SW27	SW28	SW29	SW30
Placement		Watering Run	Tributary to Watering Run	Seep	Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Watering Run	Tributary to Watering Run	Watering Run	Seep
Sample ID		SW21-082411	SW22-082511	SW23-082511	SW24-082511	SW25-082511	SW26-082411	SW27-082411	SW28-082411	SW29-082411	SW30-082411
Lab Sample No.		180-3419-10	180-3416-21	180-3416-22	180-3416-23	180-3416-24	180-3403-12	180-3403-15	180-3403-14	180-3403-10	180-3403-11
Sampling Date		8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
2-Butanone (MEK)	14000	0.55 U	0.55 U	1.1 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U
4-Methyl-2-pentanone (MIBK)	170	0.53 U	0.53 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Acetone	1500	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	1.8	0.17 U	0.17 U	0.34 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Dichlorodifluoromethane	2000	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Methylene Chloride	8	0.15 U	0.15 U	0.30 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	2	0.15 U	0.15 U	0.30 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Trichloroethene	0.5	0.14 U	0.14 U	45	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Trichlorofluoromethane	11000	0.20 U	0.20 U	1.1 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Formaldehyde	4.3	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Butyl benzyl phthalate	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.016 U	0.015 U	0.016 U	0.015 U	0.016 U
Diethyl phthalate	210	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.15 U	0.14 U	0.15 U
Fluoranthene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	87	NA	NA	NA	NA	NA	NA	95 B	NA	65 B	NA
Antimony	5.6	NA	NA	NA	NA	NA	NA	2.0 B	NA	1.3 U	NA
Barium	4	NA	NA	NA	NA	NA	NA	43 J	NA	43 J	NA
Beryllium	0.66	NA	NA	NA	NA	NA	NA	0.27 B	NA	0.33 B	NA
Cadmium	0.25	NA	NA	NA	NA	NA	NA	0.13 U	NA	0.13 U	NA
Calcium	116000	NA	NA	NA	NA	NA	NA	12000	NA	13000	NA
Chromium	74 / 0.35*	NA	NA	NA	NA	NA	NA	0.57 U	NA	0.57 U	NA
Cobalt	23	NA	NA	NA	NA	NA	NA	0.40 U	NA	0.40 U	NA
Copper	9	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.7 U	NA
Iron	300	NA	NA	NA	NA	NA	NA	79 B	NA	89 B	NA
Lead	2.5	NA	NA	NA	NA	NA	NA	1.3 U	NA	1.3 U	NA
Magnesium	82000	NA	NA	NA	NA	NA	NA	2700 J	NA	2800 J	NA
Manganese	50	NA	NA	NA	NA	NA	NA	38	NA	62	NA
Nickel	52	NA	NA	NA	NA	NA	NA	1.6 U	NA	1.6 U	NA
Potassium	53000	NA	NA	NA	NA	NA	NA	790 J	NA	800 J	NA
Sodium	940	NA	NA	NA	NA	NA	NA	18000	NA	19000	NA
Thallium	0.24	NA	NA	NA	NA	NA	NA	2.4 U	NA	2.5 B	NA
Vanadium	20	NA	NA	NA	NA	NA	NA	1.9 U	NA	1.9 U	NA
Zinc	120	NA	NA	NA	NA	NA	NA	6.9 J	NA	36	NA

TABLE 4-8B
Detected Constituents in Surface Water [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	SW21	SW22	SW23	SW24	SW25	SW26	SW27	SW28	SW29	SW30
Placement	Watering Run	Tributary to Watering Run	Seep	Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Watering Run	Tributary to Watering Run	Watering Run	Seep
Sample ID	SW21-082411	SW22-082511	SW23-082511	SW24-082511	SW25-082511	SW26-082411	SW27-082411	SW28-082411	SW29-082411	SW30-082411
Lab Sample No.	180-3419-10	180-3416-21	180-3416-22	180-3416-23	180-3416-24	180-3403-12	180-3403-15	180-3403-14	180-3403-10	180-3403-11
Sampling Date	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
Aluminum ,Dissolved	87	NA	NA	NA	NA	NA	65 B	NA	9.7 U	NA
Antimony ,Dissolved	5.6	NA	NA	NA	NA	NA	1.3 U	NA	1.3 U	NA
Barium ,Dissolved	4	NA	NA	NA	NA	NA	44 J	NA	41 J	NA
Calcium ,Dissolved	116000	NA	NA	NA	NA	NA	13000	NA	13000	NA
Chromium ,Dissolved	74 / 0.35*	NA	NA	NA	NA	NA	0.57 U	NA	0.57 U	NA
Cobalt ,Dissolved	23	NA	NA	NA	NA	NA	0.40 U	NA	0.40 U	NA
Copper ,Dissolved	9	NA	NA	NA	NA	NA	2.7 U	NA	2.7 U	NA
Iron ,Dissolved	300	NA	NA	NA	NA	NA	12 U	NA	12 U	NA
Lead ,Dissolved	2.5	NA	NA	NA	NA	NA	1.3 U	NA	1.3 U	NA
Magnesium ,Dissolved	82000	NA	NA	NA	NA	NA	2800 J	NA	2700 J	NA
Manganese ,Dissolved	50	NA	NA	NA	NA	NA	12 J	NA	28	NA
Nickel ,Dissolved	52	NA	NA	NA	NA	NA	1.6 J	NA	1.6 U	NA
Potassium ,Dissolved	53000	NA	NA	NA	NA	NA	850 J	NA	840 J	NA
Sodium ,Dissolved	940	NA	NA	NA	NA	NA	18000	NA	19000	NA
Zinc ,Dissolved	120	NA	NA	NA	NA	NA	16 K	NA	6.1 K	NA

Notes:

All units in ug/L

bgs - below ground surface

B - Repted value may be wholly or partially due to contamination in an associated laboratory blank

J - Estimated

K - Reported value may be biased high.

L - Reported value may be biased low.

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

* Both Cr[III] and Cr[IV] RSLs provided for chromium.

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8C
Detected Constituents in Pore Water Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	PW07	PW14	PW15	PW16	PW17	PW19	PW21
Placement	Watering Run	Seep	Watering Run	Watering Run	Seep	Watering Run	Watering Run
Sample ID	PW 07 091511	PW 14 091511	PW 15 091511	PW 16 091511	PW 17 091511	PW 19 091511	PW 21 091511
Lab Sample No.	460-31243-4	460-31243-14	460-31243-3	460-31243-1	460-31243-7	460-31243-2	460-31243-10
Sampling Date	9/15/2011	9/15/2011	9/15/2011	9/15/2011	9/15/2011	9/15/2011	9/15/2011
1,1,1-Trichloroethane	11	0.25 U	0.25 U	0.25 U	0.26 J	0.25 U	0.25 U
Carbon disulfide	0.92	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Carbon tetrachloride	0.3	0.19 U	0.19 U	0.19 U	0.39 J	0.19 U	0.19 U
Chloromethane	1900	0.21 U	0.21 U	0.3 J	0.21 U	0.21 U	0.21 U
cis-1,2-Dichloroethene	360	0.2 U	0.2 U	0.25 J	0.2 U	0.2 U	0.2 U
Toluene	2	0.09 U	0.09 U	0.31 J	0.09 U	0.09 U	0.09 U
Trichloroethene	0.5	0.18 U	0.18 U	0.18 U	0.37 J	35	0.3 J
Trichlorofluoromethane	11000	0.16 U	0.16 U	0.16 U	0.16 U	3	0.16 U
Vinyl chloride	0.018	0.13 U	0.13 U	0.31 J	0.13 U	0.13 U	0.13 U

Notes:

All units in ug/L

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection

Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8C
Detected Constituents in Pore Water Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	PW23	PW24	PW27	PW29	PW30	PW30
Placement	Seep	Tributary to Watering Run	Watering Run	Watering Run	Seep	Seep
Sample ID	PW 23 091511	PW 24 091511	PW 27 091511	PW 29 091511	PW 30 091511	PW 31 091511 (Duplicate)
Lab Sample No.	460-31243-9	460-31243-11	460-31243-12	460-31243-8	460-31243-5	460-31243-6
Sampling Date	9/15/2011	9/15/2011	9/15/2011	9/15/2011	9/15/2011	9/15/2011
1,1,1-Trichloroethane	11	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Carbon disulfide	0.92	0.15 U	0.15 U	0.16 J	0.15 U	0.15 U
Carbon tetrachloride	0.3	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloromethane	1900	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
cis-1,2-Dichloroethene	360	1.2	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	2	0.09 U	0.09 U	0.24 J	0.09 U	0.87 J
Trichloroethene	0.5	40	0.29 J	0.18 U	0.18 U	0.18 U
Trichlorofluoromethane	11000	1.8	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	0.018	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

Notes:

All units in ug/L

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection

Limit (MDL) provided

Yellow shading and bold denotes value
greater than most stringent EPA criterion.

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD01	SD02	SD02	SD03	SD04	SD05	SD06	SD07	SD08	SD09	SD10
Placement		On-Site Pond	Watering Run	Watering Run	Watering Run	Watering Run	Watering Run	Tributary to Watering Run				
Sample ID		SD01-082411	SD02-082411	SDDUP01 (Duplicate)	SD03-082411	SD04-082411	SD05-082411	SD06-082411	SD07-082411	SD08-082411	SD09-082411	SD10-082411
Lab Sample No.		180-3407-20 / 180-3407-40	180-3407-13 / 180-3407-33	180-3407-11 / 180-3407-31	180-3407-16 / 180-3407-36	180-3407-17 / 180-3407-37	180-3407-1 / 180-3407-21	180-3407-5 / 180-3407-25	180-3407-12 / 180-3407-32	180-3407-15 / 180-3407-35	180-3407-9 / 180-3407-29	180-3407-14 / 180-3407-34
Sampling Date		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
Acetone	--	0.0069 U	0.01 U	0.012 U	0.0064 U	0.0088 U	0.0073 U	0.0076 U	0.0079 U	0.0085 U	0.0064 U	0.0061 U
Chloroform	--	0.0008 U	0.0012 U	0.0014 U	0.00075 U	0.001 U	0.00086 U	0.00089 U	0.00092 U	0.001 U	0.00075 U	0.00072 U
Methylene Chloride	--	0.00092 U	0.0014 U	0.0017 U	0.00086 U	0.0012 U	0.00099 U	0.001 U	0.0011 U	0.0011 U	0.00086 U	0.00083 U
Trichloroethene	0.0969	0.0009 U	0.0013 U	0.0016 U	0.00084 U	0.0012 U	0.00097 U	0.001 U	0.001 U	0.0011 U	0.00085 U	0.00081 U
Formaldehyde	--	0.51 J	1.4 J	0.99 J	0.35 J	0.91 J	0.55 J	0.86 J	1.0 J	1.7 J	0.95 J	0.64 J
1,4-Dichlorobenzene	0.599	0.2 U	0.042 J	0.07 J	0.015 U	0.021 U	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	0.0202	5.3	0.016 J	0.02 J	0.0038 U	0.022 J	NA	NA	NA	NA	NA	NA
2-Methylphenol	--	0.19 U	0.024 U	0.029 U	0.015 U	0.021 U	0.017 U	0.0036 U	0.037 U	0.02 U	0.031 U	0.029 U
4-Chloroaniline	--	2.5 J	0.027 U	0.08 J	0.017 U	0.024 U	NA	NA	NA	NA	NA	NA
Acenaphthene	0.0067	29	0.035 J	0.057 J	0.0041 U	0.057 J	NA	NA	NA	NA	NA	NA
Acenaphthylene	0.0059	1.6	0.017 J	0.022 J	0.0049 U	0.037 J	NA	NA	NA	NA	NA	NA
Anthracene	0.0572	56	0.086	0.14	0.02 J	0.15	0.087	0.0021 J	0.01 U	0.0067 J	0.0086 U	0.012 J
Benzo[a]anthracene	0.108	140	0.4	0.61	0.093	0.75	NA	NA	NA	NA	NA	NA
Benzo[a]pyrene	0.15	110	0.55	0.72	0.13	1	NA	NA	NA	NA	NA	NA
Benzo[b]fluoranthene	0.0272	110	0.69	0.99	0.18	1.4	NA	NA	NA	NA	NA	NA
Benzo[g,h,i]perylene	0.17	72	0.51	0.64	0.13	1	NA	NA	NA	NA	NA	NA
Benzo[k]fluoranthene	0.24	51	0.43	0.44	0.088	0.73	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	0.18	0.45 U	0.2 J	0.29 J	0.035 J	0.071 J	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	10.9	0.38 U	0.046 U	0.056 U	0.029 U	0.042 J	NA	NA	NA	NA	NA	NA
Carbazole	--	46	0.14	0.19	0.03 J	0.26	0.068	0.0016 J	0.0099 U	0.0054 U	0.0081 U	0.0076 U
Chrysene	0.166	150	0.74	0.93	0.17	1.3	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.033	32	0.12	0.17	0.026 J	0.26	NA	NA	NA	NA	NA	NA
Dibenzo furan	0.415	22	0.036 J	0.056 J	0.021 U	0.055 J	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	6.47	0.35 U	0.042 U	0.051 U	0.027 U	0.037 U	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	--	0.29 U	0.036 U	0.043 U	0.023 U	0.031 U	NA	NA	NA	NA	NA	NA
Fluoranthene	0.423	310 J	1.2	1.6	0.27	2.1	NA	NA	NA	NA	NA	NA
Fluorene	0.0774	36	0.052 J	0.093	0.0056 U	0.061	NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	0.017	67	0.44	0.55	0.12	0.85	NA	NA	NA	NA	NA	NA
Methylphenol, 3 & 4	--	0.27 U	0.033 U	0.04 U	0.021 U	0.029 U	NA	NA	NA	NA	NA	NA
Naphthalene	0.176	7.4	0.0058 U	0.018 J	0.0037 U	0.0051 U	NA	NA	NA	NA	NA	NA
Phenanthrene	0.204	280	0.71	1	0.16	1.2	NA	NA	NA	NA	NA	NA
Pyrene	0.195	220	0.97	1.4	0.21	1.7	NA	NA	NA	NA	NA	NA

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD01	SD02	SD02	SD03	SD04	SD05	SD06	SD07	SD08	SD09	SD10
Placement		On-Site Pond	Watering Run	Watering Run	Watering Run	Watering Run	Watering Run	Tributary to Watering Run				
Sample ID		SD01-082411	SD02-082411	SDDUP01 (Duplicate)	SD03-082411	SD04-082411	SD05-082411	SD06-082411	SD07-082411	SD08-082411	SD09-082411	SD10-082411
Lab Sample No.		180-3407-20 / 180-3407-40	180-3407-13 / 180-3407-33	180-3407-11 / 180-3407-31	180-3407-16 / 180-3407-36	180-3407-17 / 180-3407-37	180-3407-1 / 180-3407-21	180-3407-5 / 180-3407-25	180-3407-12 / 180-3407-32	180-3407-15 / 180-3407-35	180-3407-9 / 180-3407-29	180-3407-14 / 180-3407-34
Sampling Date		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
4,4'-DDD	0.00488	0.012 J	0.0012 J	0.0069 J	0.00036 J	0.00064 J	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.00316	0.0017 U	0.0013 J	0.0015 U	0.00048 J	0.001 J	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.00416	0.0066 J	0.014 J	0.0015 U	0.00016 U	0.00022 U	NA	NA	NA	NA	NA	NA
Aldrin	0.002	0.0021 U	0.0003 U	0.0018 U	0.00019 U	0.00053 J	NA	NA	NA	NA	NA	NA
beta-BHC	0.005	0.003 U	0.00079 J	0.0026 U	0.00027 U	0.00038 U	NA	NA	NA	NA	NA	NA
delta-BHC	6.4	0.014 J	0.00025 U	0.0015 U	0.00016 U	0.00045 J	NA	NA	NA	NA	NA	NA
Dieldrin	0.0019	0.0059 J	0.002 J	0.0017 U	0.00052 J	0.0025 J	NA	NA	NA	NA	NA	NA
Endosulfan II	0.014	0.002 U	0.0041 J	0.0082 J	0.00077 J	0.0017 J	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	0.0054	0.0012 U	0.0054 J	0.0084 J	0.00064 J	0.0031 J	NA	NA	NA	NA	NA	NA
Endrin	0.00222	0.017 J	0.0048 J	0.0088 J	0.00056 J	0.0011 J	NA	NA	NA	NA	NA	NA
Endrin aldehyde	--	0.0022 U	0.00057 J	0.0041 J	0.00031 J	0.00029 U	NA	NA	NA	NA	NA	NA
Endrin ketone	--	0.0018 U	0.0052 J	0.0092 J	0.00058 J	0.0037 J	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	0.00237	0.0022 J	0.00029 U	0.0054 J	0.00018 U	0.0029	NA	NA	NA	NA	NA	NA
Heptachlor	0.068	0.0073 J	0.00043 J	0.0022 U	0.00023 U	0.00034 J	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.00247	0.018 J	0.00041 J	0.01 J	0.00027 J	0.00043 J	NA	NA	NA	NA	NA	NA
Methoxychlor	0.0187	0.031 J	0.011 J	0.019 J	0.0015 J	0.0067 J	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.0598	1.3	0.0016 U	0.0019 U	0.00099 U	0.0014 U	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.0598	0.28 JN	0.38	0.6	0.049	0.24	NA	NA	NA	NA	NA	NA
Aluminum	--	4400	12000	11000	11000	12000	NA	12000	NA	NA	4100	NA
Antimony	2	1.1 J	0.95 L	0.82 L	0.28 L	0.88 L	NA	1.3 UL	NA	NA	0.34 L	NA
Arsenic	9.8	5.2 K	9.6	9.8	5.8	12	NA	24	NA	NA	4.7	NA
Barium	--	31 B	64 B	57 B	26 B	88 B	NA	180 B	NA	NA	88 B	NA
Beryllium	--	0.31	0.68	0.61	0.28	0.73	NA	1.9	NA	NA	0.37	NA
Cadmium	0.99	2.2 L	0.89 L	1.1 L	0.14 L	3.4 L	NA	0.52 JB	NA	NA	0.20 L	NA
Calcium	--	1700 B	830 B	770 B	340 B	3600 B	NA	1500 B	NA	NA	830 B	NA
Chromium	43.4	20 JB	27 JB	24 JB	14 JB	23 JB	NA	16 KB	NA	NA	8.9 JB	NA
Cobalt	50	4.6	8.2 K	7.3 K	6.7 K	19 K	NA	39 K	NA	NA	7.7 K	NA
Copper	31.6	48 J	91 J	98 J	12 J	57 J	NA	15 J	NA	NA	15 J	NA
Iron	20000	14000 JB	17000 JB	16000 JB	17000 JB	23000 JB	NA	47000 B	NA	NA	14000 JB	NA
Lead	35.8	120 L	110 L	95 L	14 L	130 L	NA	41	NA	NA	20 L	NA
Magnesium	--	1100 B	2500 JB	2200 JB	1000 JB	2200 JB	NA	690 JB	NA	NA	1300 JB	NA
Manganese	460	180 JB	130 JB	110 JB	75 JB	2000 JB	NA	7500 J	NA	NA	930 JB	NA
Mercury	0.18	0.032	0.15	0.11	0.033	0.14	0.077	0.033	NA	NA	0.0095 J	NA
Nickel	22.7	17 J	24 J	20 J	9.8 J	30 J	NA	24 K	NA	NA	13 J	NA
Potassium	--	500	1300	1200	520	1200	NA	310 J	NA	NA	400	NA
Selenium	2	0.67 U	0.75	0.74	0.6	0.67	NA	1.6 UL	NA	NA	0.14 J	NA
Silver	1	8.3 L	160 L	170 L	2.1 L	27 L	NA	0.45 UL	NA	R	NA	NA
Sodium	--	48 B	63 B	58 B	25 B	54 B	NA	55 JB	NA	NA	120 JB	NA
Thallium	--	0.67 U	0.21 U	0.23 U	0.12 U	0.18 U	NA	1.8 J	NA	NA	0.13 U	NA
Vanadium	--	13	24	23	22	27	NA	37	NA	NA	10	NA
Zinc	121	550 B	220 JB	180 JB	56 JB	520 JB	NA	260 JB	NA	NA	89 JB	NA
Cyanide, Total	--	0.31 J	0.47 J	0.87	0.58	1.5	0.66	0.52 J	0.46	NA	0.25 J	0.25 J

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD01	SD02	SD02	SD03	SD04	SD05	SD06	SD07	SD08	SD09	SD10
Placement		On-Site Pond	Watering Run	Watering Run	Watering Run	Watering Run	Watering Run	Tributary to Watering Run				
Sample ID		SD01-082411	SD02-082411	SDDUP01 (Duplicate)	SD03-082411	SD04-082411	SD05-082411	SD06-082411	SD07-082411	SD08-082411	SD09-082411	SD10-082411
Lab Sample No.		180-3407-20 / 180-3407-40	180-3407-13 / 180-3407-33	180-3407-11 / 180-3407-31	180-3407-16 / 180-3407-36	180-3407-17 / 180-3407-37	180-3407-1 / 180-3407-21	180-3407-5 / 180-3407-25	180-3407-12 / 180-3407-32	180-3407-15 / 180-3407-35	180-3407-9 / 180-3407-29	180-3407-14 / 180-3407-34
Sampling Date		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
Ash Content (%)	--	81.9	92.3	90.4	97.4	85.9	90	93.4	97.2	90	96.8	98.6
In Place Density (g/cc)	--	0.924 J	0.594 J	0.533 J	1.50 J	0.712 J	0.941	1.08	1.43 J	0.67 J	1.48 J	1.86 J
Moisture Content (%)	--	57.3	109.1	129.5	24.7	81.9	51.2	46.5	27.6	99.3	27.1	9.5
Percent Moisture (%)	--	28	51	60	22	44	33	36	38	43	24	20
Percent Solids (%)	--	72	49	40	78	56	67	64	62	57	76	80
Total Organic Carbon	--	46000 J	37000 J	78000 J	4900 J	47000 J	64000 J	16000 J	25000 J	26000 J	23000 J	3300 J
Total Organic Matter (%)	--	18.1	7.7	9.6	2.6	14.1	10	6.6	2.8	10	3.2	1.4
Fraction Organic Carbon (%)	--	10.5	4.5	5.6	1.5	8.2	5.8	3.8	1.6	5.8	1.9	0.8
Hydrometer Reading 1 - Particle Size (um)	--	35.3	31.0	32.2	26.8	33.3	32.4	34.7	36.1	31.2	36.3	31.8
Hydrometer Reading 1 - Percent Finer (% Passing)	--	9.5	51.0	47.5	16.4	40.7	25.2	10.0	2.9	35.0	2.1	14.3
Hydrometer Reading 2 - Particle Size (um)	--	22.5	20.1	20.7	18.1	21.4	21.2	22.2	23.1	20.7	23.1	20.8
Hydrometer Reading 2 - Percent Finer (% Passing)	--	8.6	45.1	42.5	14.0	35.3	20.1	8.8	2.0	26.6	1.7	11.5
Hydrometer Reading 3 - Particle Size (um)	--	13.1	12.0	12.2	11.2	12.6	12.6	12.9	13.4	12.5	13.4	12.3
Hydrometer Reading 3 - Percent Finer (% Passing)	--	6.8	36.2	35.9	11.0	29.9	14.9	7.6	1.6	18.3	1.3	9.6
Hydrometer Reading 4 - Particle Size (um)	--	9.4	8.5	8.6	8.2	9.0	8.8	9.2	9.3	9.1	9.7	8.6
Hydrometer Reading 4 - Percent Finer (% Passing)	--	5.7	31.8	30.9	9.5	24.5	12.3	7.0	1.6	13.1	1.0	7.7
Hydrometer Reading 5 - Particle Size (um)	--	6.8	6.3	6.3	6.1	6.3	6.5	6.5	6.8	6.4	6.9	6.4
Hydrometer Reading 5 - Percent Finer (% Passing)	--	3.9	25.9	25.9	8.0	19.1	9.7	5.0	0.7	8.9	0.6	5.9
Hydrometer Reading 6 - Particle Size (um)	--	3.3	3.1	3.3	3.1	3.3	3.2	3.3	3.4	3.3	3.3	3.2
Hydrometer Reading 6 - Percent Finer (% Passing)	--	2.0	14.1	15.9	5.6	11.9	6.3	4.4	0.3	3.7	0.2	3.5
Hydrometer Reading 7 - Particle Size (um)	--	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Hydrometer Reading 7 - Percent Finer (% Passing)	--	1.2	6.4	7.1	3.7	6.0	4.9	4.1	0.1	2.3	0.1	2.5
Sieve Size #4 - Percent Finer (% Passing)	--	79.8 J	93.3 J	100.0	49.6 J	100.0	99.6 J	97.9 J	95.8 J	99.4 J	75.9 J	78.5 J
Sieve Size #10 - Percent Finer (% Passing)	--	59.5 J	90.4 J	89.9 J	45.7 J	98.5 J	99.3 J	86.2 J	86.6 J	97.8 J	55.7 J	67.4 J
Sieve Size #20 - Percent Finer (% Passing)	--	51.0 J	87.4 J	85.1 J	42.2	96.5 J	94.7 J	75.9	68.2	94.4	41.9	57.9
Sieve Size #40 - Percent Finer (% Passing)	--	37.7 J	84.0 J	80.4 J	36.4	90.4 J	81.6 J	57.0	42.6	89.4	23.2	47.8
Sieve Size #60 - Percent Finer (% Passing)	--	26.9 J	80.8 J	76.4 J	28.5	81.3 J	68.1 J	33.0	20.4	82.4	10.2	37.3

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD01	SD02	SD02	SD03	SD04	SD05	SD06	SD07	SD08	SD09	SD10
Placement		On-Site Pond	Watering Run	Watering Run	Watering Run	Watering Run	Watering Run	Tributary to Watering Run				
Sample ID		SD01-082411	SD02-082411	SDDUP01 (Duplicate)	SD03-082411	SD04-082411	SD05-082411	SD06-082411	SD07-082411	SD08-082411	SD09-082411	SD10-082411
Lab Sample No.		180-3407-20 / 180-3407-40	180-3407-13 / 180-3407-33	180-3407-11 / 180-3407-31	180-3407-16 / 180-3407-36	180-3407-17 / 180-3407-37	180-3407-1 / 180-3407-21	180-3407-5 / 180-3407-25	180-3407-12 / 180-3407-32	180-3407-15 / 180-3407-35	180-3407-9 / 180-3407-29	180-3407-14 / 180-3407-34
Sampling Date		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
Sieve Size #80 - Percent Finer (% Passing)	--	23.5 J	79.0 J	74.6 J	24.1	76.3 J	53.7 J	22.5	12.6	77.6	6.9	31.7
Sieve Size #100 - Percent Finer (% Passing)	--	22.0 J	77.8 J	73.2 J	21.8	73.7 J	49.9 J	18.0	9.7	74.8	5.7	28.5
Sieve Size #200 - Percent Finer (% Passing)	--	18.0 J	71.9 J	66.4 J	16.7	66.6 J	41.2 J	11.3	6.0	65.5	3.7	21.3
Sieve Size 0.375 inch - Percent Finer (% Passing)	--	90.9 J	95.7 J	100.0	53.5 J	100.0	100.0	100.0	97.6 J	100.0	90.1 J	93.8 J
Sieve Size 0.75 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	61.5 J	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 1 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	65.7 J	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 1.5 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 2 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 3 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Notes:

All units in mg/kg [unless otherwise shown].

B - Reported value may be wholly or partially due to contamination in an associated laboratory blank

J - Estimated

K - Reported value may be biased high.

L - Reported value may be biased low.

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD11	SD12	SD13	SD14	SD15	SD16	SD17	SD17	SD18	SD19	SD20
Placement		Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Seep	Watering Run	Watering Run	Seep	Seep	Watering Run	Watering Run	Tributary to Watering Run
Sample ID		SD11-082411	SD12-082411	SD13-082511	SD14-082511	SD15-082411	SD16-082411	SD17-082511	SD-DUP02 (Duplicate)	SD18-082511	SD19-082511	SD20-082511
Lab Sample No.		180-3407-18 / 180-3407-38	180-3407-10 / 180-3407-30	180-3416-1 / 180-3416-2	180-3416-3 / 180-3416-4	180-3407-8 / 180-3407-28	180-3407-19 / 180-3407-39	180-3416-5 / 180-3416-6	180-3419-13 / 180-3419-14	180-3416-7 / 180-3416-8	180-3416-9 / 180-3416-10	180-3416-11 / 180-3416-12
Sampling Date		8/24/2011	8/24/2011	8/25/2011	8/25/2011	8/24/2011	8/24/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011
Acetone	--	0.0076 U	0.0059 U	0.0089 U	0.009 U	0.0059 U	0.01 U	0.0066 U	0.0065 U	0.0061 U	0.012 U	0.0073 U
Chloroform	--	0.00089 U	0.00069 U	0.001 U	0.0011 U	0.00069 U	0.0012 U	0.00077 U	0.001 J	0.00071 U	0.0014 U	0.00085 U
Methylene Chloride	--	0.001 U	0.00086 J	0.0012 U	0.0012 U	0.00079 U	0.0013 U	0.00088 U	0.014	0.00082 U	0.0016 U	0.00098 U
Trichloroethene	0.0969	0.001 U	0.00077 U	0.0012 U	0.0012 U	0.00078 U	0.0013 U	0.012	0.037	0.0008 U	0.0015 U	0.00096 U
Formaldehyde	--	0.55 J	0.66 J	1	0.74 J	0.84 J	0.75 J	0.63 J	0.66 J	0.66 J	0.6 J	0.38 J
1,4-Dichlorobenzene	0.599	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	0.0202	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	--	0.018 U	0.0055 U	0.064 J	0.042 U	0.028 U	0.012 U	0.0076 U	0.003 U	0.0071 U	0.054 U	0.0034 U
4-Chloroaniline	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	0.0067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	0.0059	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	0.0572	0.0097 J	0.026	0.065 J	0.012 J	0.021 J	0.012 J	0.0021 U	0.0075 J	0.002 U	0.017 J	0.001 J
Benzo[a]anthracene	0.108	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[a]pyrene	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[b]fluoranthene	0.0272	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[g,h,i]perylene	0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[k]fluoranthene	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	10.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	0.0047 U	0.016	0.057 J	0.013 J	0.0074 U	0.015 J	0.002 U	0.0011 J	0.0019 U	0.014 U	0.0009 U
Chrysene	0.166	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	0.415	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	6.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	0.423	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	0.0774	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 3 & 4	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	0.176	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	0.204	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	0.195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD11	SD12	SD13	SD14	SD15	SD16	SD17	SD17	SD18	SD19	SD20
Placement		Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Seep	Watering Run	Watering Run	Seep	Seep	Watering Run	Watering Run	Tributary to Watering Run
Sample ID		SD11-082411	SD12-082411	SD13-082511	SD14-082511	SD15-082411	SD16-082411	SD17-082511	SD-DUP02 (Duplicate)	SD18-082511	SD19-082511	SD20-082511
Lab Sample No.		180-3407-18 / 180-3407-38	180-3407-10 / 180-3407-30	180-3416-1 / 180-3416-2	180-3416-3 / 180-3416-4	180-3407-8 / 180-3407-28	180-3407-19 / 180-3407-39	180-3416-5 / 180-3416-6	180-3419-13 / 180-3419-14	180-3416-7 / 180-3416-8	180-3416-9 / 180-3416-10	180-3416-11 / 180-3416-12
Sampling Date		8/24/2011	8/24/2011	8/25/2011	8/25/2011	8/24/2011	8/24/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011
4,4'-DDD	0.00488	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.00316	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.00416	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	0.0054	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	0.00222	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	0.00237	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.068	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.00247	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	0.0187	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.0598	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.0598	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	--	NA	NA	NA	NA	NA	4700	NA	NA	NA	9300 B	NA
Antimony	2	NA	NA	NA	NA	NA	0.54 L	NA	NA	NA	0.9 L	NA
Arsenic	9.8	NA	NA	NA	NA	NA	7	NA	NA	NA	28	NA
Barium	--	NA	NA	NA	NA	NA	170 B	NA	NA	NA	2900 B	NA
Beryllium	--	NA	NA	NA	NA	NA	0.71	NA	NA	NA	2.3 L	NA
Cadmium	0.99	NA	NA	NA	NA	NA	0.74 L	NA	NA	NA	3.3 L	NA
Calcium	--	NA	NA	NA	NA	NA	620 B	NA	NA	NA	2100 JB	NA
Chromium	43.4	NA	NA	NA	NA	NA	11 JB	NA	NA	NA	19 B	NA
Cobalt	50	NA	NA	NA	NA	NA	12 K	NA	NA	NA	58 L	NA
Copper	31.6	NA	NA	NA	NA	NA	20 J	NA	NA	NA	27	NA
Iron	20000	NA	NA	NA	NA	NA	18000 JB	NA	NA	NA	53000 JB	NA
Lead	35.8	NA	NA	NA	NA	NA	17 L	NA	NA	NA	23	NA
Magnesium	--	NA	NA	NA	NA	NA	960 JB	NA	NA	NA	1100 JB	NA
Manganese	460	NA	NA	NA	NA	NA	930 J	NA	NA	NA	26000 B	NA
Mercury	0.18	NA	NA	NA	NA	NA	0.020 J	NA	NA	NA	0.02 J	NA
Nickel	22.7	NA	NA	NA	NA	NA	18 J	NA	NA	NA	140 L	NA
Potassium	--	NA	NA	NA	NA	NA	310 J	NA	NA	NA	540 J	NA
Selenium	2	NA	NA	NA	NA	NA	0.69	NA	NA	NA	6 UL	NA
Silver	1	NA	NA	NA	NA	NA	R	NA	NA	NA	1.7 U	NA
Sodium	--	NA	NA	NA	NA	NA	89 JB	NA	NA	NA	140 B	NA
Thallium	--	NA	NA	NA	NA	NA	0.21 U	NA	NA	NA	6 U	NA
Vanadium	--	NA	NA	NA	NA	NA	11	NA	NA	NA	20	NA
Zinc	121	NA	NA	NA	NA	NA	210 JB	NA	NA	NA	680 JB	NA
Cyanide, Total	--	0.87	NA	NA	NA	NA	0.65 J	NA	NA	NA	0.31 J	NA

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD11	SD12	SD13	SD14	SD15	SD16	SD17	SD17	SD18	SD19	SD20
Placement		Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Seep	Watering Run	Watering Run	Seep	Seep	Watering Run	Watering Run	Tributary to Watering Run
Sample ID		SD11-082411	SD12-082411	SD13-082511	SD14-082511	SD15-082411	SD16-082411	SD17-082511	SD-DUP02 (Duplicate)	SD18-082511	SD19-082511	SD20-082511
Lab Sample No.		180-3407-18 / 180-3407-38	180-3407-10 / 180-3407-30	180-3416-1 / 180-3416-2	180-3416-3 / 180-3416-4	180-3407-8 / 180-3407-28	180-3407-19 / 180-3407-39	180-3416-5 / 180-3416-6	180-3419-13 / 180-3419-14	180-3416-7 / 180-3416-8	180-3416-9 / 180-3416-10	180-3416-11 / 180-3416-12
Sampling Date		8/24/2011	8/24/2011	8/25/2011	8/25/2011	8/24/2011	8/24/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011
Ash Content (%)	--	91.3	98.4	97.3	89.3	96.5	97.3	96.6	97.5	98	92.2	96.9
In Place Density (g/cc)	--	0.925 J	1.44 J	1.44 J	0.82 J	1.16 J	1.16 J	1.22 J	NA	1.46 J	0.703 J	1.18 J
Moisture Content (%)	--	62.1	33.9	27.6	73.4	46.7	26.2	39.3	35.8	25.4	95.1	45.1
Percent Moisture (%)	--	35	15	44	45	18	51	24	23	18	57	31
Percent Solids (%)	--	65	85	56	55	82	49	76	77	82	43	69
Total Organic Carbon	--	28000 J	23000 J	37000	77000	23000 J	76000 J	9600	9300	4000	10000	8600
Total Organic Matter (%)	--	8.7	1.6	2.7	10.7	3.5	2.7	3.4	2.5	2	7.8	3.1
Fraction Organic Carbon (%)	--	5.0	0.9	1.6	6.2	2.0	1.6	2.0	1.5	1.2	4.5	1.8
Hydrometer Reading 1 - Particle Size (um)	--	32.6	25.9	30.7	23.2	31.8	34.0	35.3	NA	35.8	32.7	34.7
Hydrometer Reading 1 - Percent Finer (% Passing)	--	19.8	34.8	18.8	53.2	14.6	15.6	5.4	NA	3.1	23.6	8.0
Hydrometer Reading 2 - Particle Size (um)	--	21.2	17.3	20.1	15.7	20.8	22.0	22.7	NA	22.8	21.0	22.1
Hydrometer Reading 2 - Percent Finer (% Passing)	--	16.0	31.3	15.8	48.0	11.8	12.4	4.0	NA	2.8	20.9	7.0
Hydrometer Reading 3 - Particle Size (um)	--	12.5	10.5	12.1	9.8	12.3	12.8	13.2	NA	13.2	12.3	12.9
Hydrometer Reading 3 - Percent Finer (% Passing)	--	12.1	27.1	12.3	41.3	9.8	10.8	3.5	NA	2.8	18.3	5.9
Hydrometer Reading 4 - Particle Size (um)	--	8.9	7.8	8.8	7.5	8.8	9.2	9.5	NA	9.2	8.7	9.1
Hydrometer Reading 4 - Percent Finer (% Passing)	--	9.7	24.7	9.8	35.3	8.4	8.3	3.1	NA	2.4	15.6	4.9
Hydrometer Reading 5 - Particle Size (um)	--	6.6	5.5	6.4	5.6	6.5	6.6	6.5	NA	6.6	6.4	6.6
Hydrometer Reading 5 - Percent Finer (% Passing)	--	8.2	21.2	7.8	29.4	6.0	6.7	2.6	NA	2.0	12.9	4.4
Hydrometer Reading 6 - Particle Size (um)	--	3.3	2.9	3.1	3.0	3.2	3.2	3.3	NA	3.3	3.3	3.2
Hydrometer Reading 6 - Percent Finer (% Passing)	--	4.3	17.0	5.3	17.5	3.6	4.2	1.6	NA	1.3	8.5	2.8
Hydrometer Reading 7 - Particle Size (um)	--	1.4	1.3	1.4	1.3	1.4	1.4	1.4	NA	1.4	1.4	1.4
Hydrometer Reading 7 - Percent Finer (% Passing)	--	2.6	13.2	3.2	9.9	2.0	2.7	1.1	NA	1.2	4.8	1.7
Sieve Size #4 - Percent Finer (% Passing)	--	97.6 J	77.6 J	85.5 J	96.5 J	96.3 J	99.4 J	98.6 J	NA	94.9 J	99.7 J	98.6 J
Sieve Size #10 - Percent Finer (% Passing)	--	91.9 J	66.5 J	74.6 J	94.7 J	94.8 J	94.7 J	94.8 J	NA	86.1 J	97.9 J	97.0 J
Sieve Size #20 - Percent Finer (% Passing)	--	83.6 J	61.2	66.2	93.2	91.8	83.0 J	87.0	NA	69.0	93.1 J	92.4
Sieve Size #40 - Percent Finer (% Passing)	--	72.1 J	54.8	54.4	89.9	76.6	63.1 J	62.1	NA	36.2	78.6 J	69.8
Sieve Size #60 - Percent Finer (% Passing)	--	59.0 J	48.9	43.4	87.5	50.4	44.3 J	36.9	NA	15.1	64.8 J	39.8

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD11	SD12	SD13	SD14	SD15	SD16	SD17	SD17	SD18	SD19	SD20
Placement	Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Seep	Watering Run	Watering Run	Seep	Seep	SD-DUP02 (Duplicate)	Watering Run	Watering Run	Tributary to Watering Run
Sample ID	SD11-082411	SD12-082411	SD13-082511	SD14-082511	SD15-082411	SD16-082411	SD17-082511	SD17-082511	SD18-082511	SD19-082511	SD20-082511	
Lab Sample No.	180-3407-18 / 180-3407-38	180-3407-10 / 180-3407-30	180-3416-1 / 180-3416-2	180-3416-3 / 180-3416-4	180-3407-8 / 180-3407-28	180-3407-19 / 180-3407-39	180-3416-5 / 180-3416-6	180-3419-13 / 180-3419-14	180-3416-7 / 180-3416-8	180-3416-9 / 180-3416-10	180-3416-11 / 180-3416-12	180-3416-12 / 8/25/2011
Sampling Date	8/24/2011	8/24/2011	8/25/2011	8/25/2011	8/24/2011	8/24/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011
Sieve Size #80 - Percent Finer (% Passing)	--	51.7 J	46.0	36.0	84.3	36.7	37.2 J	21.3	NA	7.7	53.6 J	21.2
Sieve Size #100 - Percent Finer (% Passing)	--	47.3 J	44.3	33.4	82.9	30.0	33.8 J	16.5	NA	6.1	49.4 J	16.1
Sieve Size #200 - Percent Finer (% Passing)	--	35.8 J	39.6	27.0	77.3	17.7	25.3 J	7.4	NA	3.9	38.5 J	8.0
Sieve Size 0.375 inch - Percent Finer (% Passing)	--	100.0	89.3 J	95.6 J	98.6 J	97.5 J	100.0	99.4 J	NA	97.9 J	100.0	100.0
Sieve Size 0.75 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA	100.0	100.0	100.0
Sieve Size 1 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA	100.0	100.0	100.0
Sieve Size 1.5 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA	100.0	100.0	100.0
Sieve Size 2 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA	100.0	100.0	100.0
Sieve Size 3 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA	100.0	100.0	100.0

Notes:

All units in mg/kg [unless otherwise shown].

B - Reported value may be wholly or partially due to contamination in an associated laboratory blank

J - Estimated

K - Reported value may be biased high.

L - Reported value may be biased low.

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD21	SD22	SD23	SD24	SD25	SD26	SD27	SD28	SD29	SD30
Placement		Watering Run	Tributary to Watering Run	Seep	Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Watering Run	Tributary to Watering Run	Watering Run	Seep
Sample ID		SD21-082511	SD22-082511	SD23-082511	SD24-082511	SD25-082511	SD26-082411	SD27-082411	SD28-082411	SD29-082411	SD30-082411
Lab Sample No.		180-3416-13 / 180-3416-14	180-3416-15 / 180-3416-16	180-3416-17 / 180-3416-18	180-3416-19 / 180-3416-20	180-3419-11 / 180-3419-12	180-3407-4 / 180-3407-24	180-3407-7 / 180-3407-27	180-3407-6 / 180-3407-26	180-3407-2 / 180-3407-22	180-3407-3 / 180-3407-23
Sampling Date		8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
Acetone	--	0.0063 U	0.0068 U	0.0074 U	0.0096 U	0.02 J	0.01 U	0.0065 U	0.0066 U	0.0063 U	0.0073 U
Chloroform	--	0.00074 U	0.00079 U	0.00086 U	0.0011 U	0.0011 U	0.0012 U	0.00076 U	0.00077 U	0.00073 U	0.00085 U
Methylene Chloride	--	0.00085 U	0.00091 U	0.00099 U	0.0013 U	0.0017 J	0.0014 U	0.00088 U	0.00089 U	0.00084 U	0.00098 U
Trichloroethene	0.0969	0.00083 U	0.00089 U	0.00097 U	0.0013 U	0.0013 U	0.0013 U	0.00086 U	0.00087 U	0.00083 U	0.00095 U
Formaldehyde	--	0.98 J	0.65 J	0.91 J	0.87 J	0.46 J	0.92 J	0.94 J	0.66 J	0.89 J	0.97 J
1,4-Dichlorobenzene	0.599	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-MethylNaphthalene	0.0202	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	--	0.0015 U	0.0016 U	0.0034 U	0.0022 U	0.0022 U	0.024 U	0.0077 U	0.0078 U	0.015 U	0.0034 U
4-Chloroaniline	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	0.0067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	0.0059	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	0.0572	0.00041 U	0.00044 U	0.0017 J	0.00078 J	0.00063 U	0.0066 U	0.0021 U	0.0022 U	0.032 J	0.00094 U
Benzo[a]anthracene	0.108	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[a]pyrene	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[b]fluoranthene	0.0272	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[g,h,i]perylene	0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[k]fluoranthene	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	10.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	0.00055 J	0.00041 U	0.00091 U	0.00059 U	0.00059 U	0.0062 U	0.002 U	0.002 U	0.017 J	0.00089 U
Chrysene	0.166	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	0.415	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	6.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	0.423	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	0.0774	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 3 & 4	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	0.176	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	0.204	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	0.195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD21	SD22	SD23	SD24	SD25	SD26	SD27	SD28	SD29	SD30
Placement		Watering Run	Tributary to Watering Run	Seep	Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Watering Run	Tributary to Watering Run	Watering Run	Seep
Sample ID		SD21-082511	SD22-082511	SD23-082511	SD24-082511	SD25-082511	SD26-082411	SD27-082411	SD28-082411	SD29-082411	SD30-082411
Lab Sample No.		180-3416-13 / 180-3416-14	180-3416-15 / 180-3416-16	180-3416-17 / 180-3416-18	180-3416-19 / 180-3416-20	180-3419-11 / 180-3419-12	180-3407-4 / 180-3407-24	180-3407-7 / 180-3407-27	180-3407-6 / 180-3407-26	180-3407-2 / 180-3407-22	180-3407-3 / 180-3407-23
Sampling Date	8/25/2011		8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
4,4'-DDD	0.00488	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.00316	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.00416	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	0.0054	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	0.00222	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	0.00237	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.068	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.00247	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	0.0187	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.0598	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.0598	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	--	NA	NA	NA	NA	NA	NA	2000	NA	3900	NA
Antimony	2	NA	NA	NA	NA	NA	NA	0.12 L	NA	0.19 L	NA
Arsenic	9.8	NA	NA	NA	NA	NA	NA	2.1	NA	3.5	NA
Barium	--	NA	NA	NA	NA	NA	NA	31 B	NA	63 B	NA
Beryllium	--	NA	NA	NA	NA	NA	NA	0.21 JB	NA	0.41	NA
Cadmium	0.99	NA	NA	NA	NA	NA	NA	0.39 L	NA	0.41 L	NA
Calcium	--	NA	NA	NA	NA	NA	NA	170 JB	NA	460 B	NA
Chromium	43.4	NA	NA	NA	NA	NA	NA	3.1 JB	NA	6.1 JB	NA
Cobalt	50	NA	NA	NA	NA	NA	NA	3.5 K	NA	8.2 K	NA
Copper	31.6	NA	NA	NA	NA	NA	NA	3.5 J	NA	7.1 J	NA
Iron	20000	NA	NA	NA	NA	NA	NA	5600 JB	NA	11000 JB	NA
Lead	35.8	NA	NA	NA	NA	NA	NA	5.4 L	NA	11 L	NA
Magnesium	--	NA	NA	NA	NA	NA	NA	400 JB	NA	1200 JB	NA
Manganese	460	NA	NA	NA	NA	NA	NA	490 JB	NA	1000 JB	NA
Mercury	0.18	NA	NA	NA	NA	NA	NA	0.0087 J	NA	0.014 J	NA
Nickel	22.7	NA	NA	NA	NA	NA	NA	5.4 J	NA	12 J	NA
Potassium	--	NA	NA	NA	NA	NA	NA	240 J	NA	350	NA
Selenium	2	NA	NA	NA	NA	NA	NA	0.13 U	NA	0.13 U	NA
Silver	1	NA	NA	NA	NA	NA	NA	R	NA	R	NA
Sodium	--	NA	NA	NA	NA	NA	NA	28 B	NA	35 B	NA
Thallium	--	NA	NA	NA	NA	NA	NA	0.13 U	NA	0.14 J	NA
Vanadium	--	NA	NA	NA	NA	NA	NA	3.4	NA	7.1	NA
Zinc	121	NA	NA	NA	NA	NA	NA	40 JB	NA	67 JB	NA
Cyanide, Total	--	NA	NA	NA	NA	NA	NA	0.14 J	NA	0.28 J	NA

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD21	SD22	SD23	SD24	SD25	SD26	SD27	SD28	SD29	SD30
Placement	Watering Run	Tributary to Watering Run	Seep	Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Watering Run	Tributary to Watering Run	Watering Run	Watering Run	Seep
Sample ID	SD21-082511	SD22-082511	SD23-082511	SD24-082511	SD25-082511	SD26-082411	SD27-082411	SD28-082411	SD29-082411	SD30-082411	
Lab Sample No.	180-3416-13 / 180-3416-14	180-3416-15 / 180-3416-16	180-3416-17 / 180-3416-18	180-3416-19 / 180-3416-20	180-3419-11 / 180-3419-12	180-3407-4 / 180-3407-24	180-3407-7 / 180-3407-27	180-3407-6 / 180-3407-26	180-3407-2 / 180-3407-22	180-3407-3 / 180-3407-23	
Sampling Date	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
Ash Content (%)	--	98.8	99.3	98.2	95.1	95.4	96	98.5	97.5	98.5	97.9
In Place Density (g/cc)	--	1.4 J	1.44 J	1.6 J	0.874 J	0.971 J	1.08 J	1.42 J	1.2	1.52	1.28
Moisture Content (%)	--	33.4	31	15	71	60.3	50.4	28.5	45.1	22.3	38.7
Percent Moisture (%)	--	21	26	32	48	48	50	24	25	21	31
Percent Solids (%)	--	79	74	68	52	52	50	76	75	79	69
Total Organic Carbon	--	3300	4500	7000	32000	31000	39000 J	2600 J	7900 J	5700 J	10000 J
Total Organic Matter (%)	--	1.2	0.7	1.8	4.9	4.6	4	1.5	2.5	1.5	2.1
Fraction Organic Carbon (%)	--	0.7	0.4	1.0	2.8	2.7	2.3	0.9	1.5	0.9	1.2
Hydrometer Reading 1 - Particle Size (um)	--	36.3	36.2	35.0	35.3	32.5	35.0	35.4	35.9	36.2	34.9
Hydrometer Reading 1 - Percent Finer (% Passing)	--	2.0	2.4	5.5	8.9	17.5	7.8	3.3	4.7	2.9	7.5
Hydrometer Reading 2 - Particle Size (um)	--	23.1	23.0	22.4	22.6	21.2	22.4	22.6	22.8	23.0	22.2
Hydrometer Reading 2 - Percent Finer (% Passing)	--	1.6	2.0	4.7	7.3	14.3	6.6	2.7	4.2	2.5	7.0
Hydrometer Reading 3 - Particle Size (um)	--	13.3	13.3	13.0	13.1	12.5	13.0	13.1	13.2	13.4	12.9
Hydrometer Reading 3 - Percent Finer (% Passing)	--	1.6	2.0	3.9	6.6	11.8	6.1	2.4	3.7	2.1	6.0
Hydrometer Reading 4 - Particle Size (um)	--	9.1	9.4	9.3	9.3	8.8	9.2	9.3	9.3	9.4	9.2
Hydrometer Reading 4 - Percent Finer (% Passing)	--	1.6	1.7	3.5	5.8	9.9	5.5	2.4	2.7	2.1	5.1
Hydrometer Reading 5 - Particle Size (um)	--	6.7	6.5	6.8	6.5	6.6	6.6	6.7	6.9	6.5	6.7
Hydrometer Reading 5 - Percent Finer (% Passing)	--	1.3	1.3	2.6	4.3	7.9	4.3	1.4	2.1	2.1	4.6
Hydrometer Reading 6 - Particle Size (um)	--	3.2	3.3	3.3	3.3	3.3	3.2	3.3	3.4	3.3	3.3
Hydrometer Reading 6 - Percent Finer (% Passing)	--	0.9	1.3	1.8	2.7	5.4	3.2	0.8	2.1	1.7	3.5
Hydrometer Reading 7 - Particle Size (um)	--	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Hydrometer Reading 7 - Percent Finer (% Passing)	--	0.8	0.9	1.4	2.6	3.4	2.5	0.7	1.8	1.1	3.3
Sieve Size #4 - Percent Finer (% Passing)	--	87.0 J	89.9 J	73.1 J	69.9 J	93.4	94.6 J	99.9 J	92.6 J	90.9 J	99.7 J
Sieve Size #10 - Percent Finer (% Passing)	--	80.4 J	80.2 J	58.3 J	62.0 J	88.4	90.9 J	99.5 J	90.0 J	85.2 J	99 J
Sieve Size #20 - Percent Finer (% Passing)	--	63.7	69.6	48.8	55.5 J	82.4	86.1	94.2	84.3	75.2	92.8
Sieve Size #40 - Percent Finer (% Passing)	--	27.3	48.0	37.6	45.3 J	66.8	70.9	63.8	57.0	49.5	66.8
Sieve Size #60 - Percent Finer (% Passing)	--	9.0	24.6	27.3	36.7 J	52.0	52.4	27.4	24.8	23.0	33.1

TABLE 4-8D
Detected Constituents in Sediment [Low Flow Conditions] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD21	SD22	SD23	SD24	SD25	SD26	SD27	SD28	SD29	SD30
Placement	Watering Run	Tributary to Watering Run	Seep	Tributary to Watering Run	Tributary to Watering Run	Tributary to Watering Run	Watering Run	Tributary to Watering Run	Watering Run	Watering Run	Seep
Sample ID	SD21-082511	SD22-082511	SD23-082511	SD24-082511	SD25-082511	SD26-082411	SD27-082411	SD28-082411	SD29-082411	SD30-082411	
Lab Sample No.	180-3416-13 / 180-3416-14	180-3416-15 / 180-3416-16	180-3416-17 / 180-3416-18	180-3416-19 / 180-3416-20	180-3419-11 / 180-3419-12	180-3407-4 / 180-3407-24	180-3407-7 / 180-3407-27	180-3407-6 / 180-3407-26	180-3407-2 / 180-3407-22	180-3407-3 / 180-3407-23	
Sampling Date	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
Sieve Size #80 - Percent Finer (% Passing)	--	4.5	10.9	18.7	30.6 J	42.5	36.4	16.4	14.5	13.5	20.2
Sieve Size #100 - Percent Finer (% Passing)	--	3.8	7.4	15.7	28.5 J	39.5	30.6	12.3	10.3	9.3	14.9
Sieve Size #200 - Percent Finer (% Passing)	--	3.1	2.9	9.0	23.5 J	33.2	18.7	7.1	4.7	3.8	8.1
Sieve Size 0.375 inch - Percent Finer (% Passing)	--	94.3 J	97.1 J	88.4 J	79.8 J	100.0	100.0	100.0	95.2 J	95.5 J	99.9 J
Sieve Size 0.75 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 1 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 1.5 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 2 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 3 inch - Percent Finer (% Passing)	--	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Notes:

All units in mg/kg [unless otherwise shown].

B - Repted value may be wholly or partially due to contamination in an associated laboratory blank

J - Estimated

K - Reported value may be biased high.

L - Reported value may be biased low.

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8E
Detected Constituents in Sediment [Supplemental Event] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD-37	SD-38	SD-39	SD-40	SD-41
Placement		On-Site Pond Outfall Channel - Downgradient	On-Site Pond Outfall Channel - At Roadway	On-Site Pond Outfall Channel - Along Roadway to East	On-Site Pond Outfall Channel - Farther Along Roadway to East	On-Site Pond Outfall Channel - Along Roadway to West
Sample ID Lab Sample No. Sampling Date		SD-37-10132014 180-37779-1 10/13/2014	SD-38-10132014 180-37779-2 10/13/2014	SD-39-10132014 180-37779-5 10/13/2014	SD-40-10132014 180-37779-4 10/13/2014	SD-41-10132014 180-37779-3 10/13/2014
Acenaphthene	0.0067	0.018 J	0.015 J	0.019 U	0.014 U	0.039 U
Acenaphthylene	0.0059	0.011 J	0.0095 J	0.023 U	0.017 U	0.046 U
Anthracene	0.0572	0.051	0.038 J	0.045 J	0.025 J	0.04 U
Benzo[a]anthracene	0.108	0.24	0.16	0.13 J	0.1 J	0.051 U
Benzo[a]pyrene	0.15	0.31	0.21	0.12 J	0.11 J	0.041 U
Benzo[b]fluoranthene	0.0272	0.6	0.34	0.15 J	0.16	0.064 U
Benzo[g,h,i]perylene	0.17	0.36	0.22	0.16 J	0.1 J	0.04 U
Benzo[k]fluoranthene	0.24	0.17	0.16	0.095 J	0.082 J	0.082 U
Chrysene	0.166	0.47	0.32	0.16 J	0.16	0.048 U
Dibenz(a,h)anthracene	0.033	0.079	0.051	0.022 U	0.016 U	0.045 U
Fluoranthene	0.423	0.85	0.57	0.35	0.32	0.26 J
Fluorene	0.0774	0.02	0.017 J	0.027 U	0.02 U	0.053 U
Indeno[1,2,3-cd]pyrene	0.017	0.3	0.21	0.11 J	0.092 J	0.042 U
Naphthalene	0.176	0.0054 J	0.0082 J	0.017 U	0.013 U	0.035 U
Phenanthrene	0.204	0.36	0.26	0.18 J	0.15	0.14 J
Pyrene	0.195	0.52	0.36	0.19 J	0.19	0.17 J
Aluminum	--	6200	8000	6900	10000	4500
Antimony	2	0.49 L	0.49 L	0.55 L	0.57 L	0.24 L
Arsenic	9.8	6.5	5.2	4.8	4.2	3.7
Barium	--	36 B	46 B	32 B	55 B	28 B
Beryllium	--	0.41	0.44	0.41	0.79	0.29
Cadmium	0.99	1.3 B	0.54 B	0.25 JB	0.41 B	0.68 B
Calcium	--	1700	1600	1200	1000	1400
Chromium	43.4	12	13	14	21	7
Cobalt	50	7.7	7.4	7.9	10	11
Copper	31.6	25	26	24	39	12
Iron	20000	17000 J	16000 J	12000 J	12000 J	11000 J
Lead	35.8	48	49	63	88	29
Magnesium	--	1100	1600	1500	1700	1400

TABLE 4-8E
Detected Constituents in Sediment [Supplemental Event] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Most Stringent EPA Sediment Value	SD-37	SD-38	SD-39	SD-40	SD-41
Placement		On-Site Pond Outfall Channel - Downgradient	On-Site Pond Outfall Channel - At Roadway	On-Site Pond Outfall Channel - Along Roadway to East	On-Site Pond Outfall Channel - Farther Along Roadway to East	On-Site Pond Outfall Channel - Along Roadway to West
Sample ID Lab Sample No. Sampling Date		SD-37-10132014 180-37779-1 10/13/2014	SD-38-10132014 180-37779-2 10/13/2014	SD-39-10132014 180-37779-5 10/13/2014	SD-40-10132014 180-37779-4 10/13/2014	SD-41-10132014 180-37779-3 10/13/2014
Manganese	460	680 J	190 J	250 J	340 J	690 J
Mercury	0.18	0.054	0.067	0.099	0.061	0.034
Nickel	22.7	14	15	15	18	13
Potassium	--	430	400	300	610	260 J
Selenium	2	0.68	0.82	0.73	0.84	0.3 J
Silver	1	15	43	17	13	4.7
Sodium	--	30 J	100 J	80 J	63 J	50 J
Vanadium	--	14	15	11	18	13
Zinc	121	230 J	110 J	48 J	120 J	110 J
Total Organic Carbon	--	24000	130000	120000	63000	75000

Notes:

All units in mg/kg.

B - Reported value may be wholly or partially due to contamination in an associated laboratory blank

J - Estimated

L - Reported value may be biased low.

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-8F
Chromium/Hexavalent Chromium Constituents in Surface Water [Additional Event] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Placement Sample ID Lab Sample No.	Most Stringent <i>EPA Surface Water Value</i>	SW06	SW06 Duplicate
Sampling Date			
Chromium	74	1.10 J	0.365 J
Chromium (Dissolved)	74	0.378 J	0.366 J
Hexavalent Chromium	0.35	0.106	0.112

Notes:

All units in ug/L.

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL)
provided

Yellow shading and bold denotes value greater than
most stringent EPA criterion.

TABLE 4-8G
Chromium/Hexavalent Chromium Constituents in Sediment [Additional Event] Samples
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Placement Sample ID Lab Sample No.	<i>Most Stringent EPA Sediment Value</i>	SD02	SD02 Duplicate
		On-Site Pond (0-1 ft bgs) SD-02-C-GB-SS 1616031-05 / 8336322 04/13/2016	On-Site Pond (0-1 ft bgs) DUP 2-041316 1616031-06 04/13/2016
Sampling Date			
Chromium	43.4	30.4	32.0
Hexavalent Chromium	43.4	0.014 UJ	0.015 UJ
Total Solids (%)	--	14.10	13.85
ORP (mV)	--	427 J	431 J
pH (SU)	--	7.22	7.16
Total Organic Carbon (%)	--	9.22	NA

Notes:

All units in mg/kg [unless otherwise shown].

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

Yellow shading and bold denotes value greater than most stringent EPA criterion.

TABLE 4-9A
Detected Constituents in Grab Groundwater Samples from RMW-04S-2 and RMW-14S (May/June 2011)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-04S-2	RMW-14S
			60 RMW-04S-2 460-26340-1 5/10/2011	32 RMW-14S 460-27739-5 6/15/2011
1,1,1-Trichloroethane	200	8000	0.58 J	0.25 U
Toluene	1000	1100	0.09 U	0.14 J
Trichloroethylene	5	0.49	31	0.26 J

Notes:

All units in ug/L.

bgs - below ground surface

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9B
Detected Constituents in Interim Groundwater Samples from RMW-02S and RMW-04S (December 2011)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-02S		RMW-04S	
			46 RMW-02S-1 460-35111-1 12/21/2011	65 RMW-02S-2 460-35111-2 12/21/2011	40 RMW-04S-1 460-35111-3 12/21/2011	-- RMW-04S-2 460-35111-4 12/21/2011
1,1,1-Trichloroethane	200	8000	1	1.6	0.39 J	3.6
1,1-Dichloroethene	7	280	0.14 U	0.45 J	0.14 U	1.2
cis-1,2-Dichloroethene	70	36	0.2 U	0.2 U	0.2 U	0.52 J
Trichloroethene	5	0.49	39	100	27	58
1,4-Dioxane	--	0.46	R	3.6 J	22 J	23 J
Bis(2-ethylhexyl) phthalate	6	5.6	2 U	2 U	2.1 U	6.2 J
Aluminum	50 to 200	20000	179 J	569	345	521
Barium	2000	3800	29.7 J	29.6 J	33.4 J	62 J
Calcium	--	--	10800	8600	12300	15900
Iron	300	14000	281	1110	551	866
Magnesium	--	--	2540 J	2210 J	3060 J	4770 J
Manganese	50	430	15.3	298	29.4	7820
Potassium	--	--	823 J	1130 J	876 J	1490 J
Sodium	20000	--	6250	7620	7220	102000
Zinc	5000	6000	53.4	8.9 J	5.9 J	6.6 J

Notes:

All units in ug/L unless otherwise stated.

bgs - below ground surface; corresponds to pump intake depth with the exception of RMW-04S-2 which was artesian and collected from a sampling port at the top of the well.

J - Estimated

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9C
Detected Constituents in Interim Groundwater Samples from Overburden Wells (April 2012)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-02S	RMW-02S	RMW-04S	RMW-04S	RMW-05S	RMW-06S	RMW-07S	RMW-08S	RMW-09S
			44-46 RMW-02S-1	63-65 RMW-02S-2	38-40 RMW-04S-1	64-66 RMW-04S-2	115-117 RMW-05S	115-116 RMW-06S	43-45 RMW-07S	74-76 RMW-08S	40-42 RMW-09S-1
Lab Sample No. Sampling Date			460-39047-008 4/12/2012	460-39047-009 4/12/2012	460-39047-006 4/11/2012	460-39047-007 4/11/2012	460-39047-002 4/11/2012	460-39047-004 4/11/2012	460-38988-009 4/10/2012	460-38988-010 4/10/2012	460-39047-005 4/11/2012
1,1,1-Trichloroethane	200	8000	1	1.6	0.68 J	0.06 U	0.06 U	0.06 U	0.06 U	0.25 J	0.68 J
1,1-Dichloroethane	--	2.7	1.5	0.29 J	0.13 U						
1,1-Dichloroethene	7	280	0.85 J	0.54 J	0.09 U						
Carbon tetrachloride	5	0.45	0.06 U	0.63 J	0.06 U						
Chloroform	80	0.22	0.08 U	0.16 J	0.08 U	0.08 U	0.25 J	0.08 U	0.45 J	0.08 U	0.08 U
cis-1,2-Dichloroethene	70	36	0.78 J	0.18 U							
Dichlorodifluoromethane	--	200	0.22 U								
Ethylbenzene	700	1.5	0.1 U	0.1 U	0.1 U	0.1 U	0.12 J	0.1 U	0.1 U	0.1 U	0.1 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.36 J	0.25 U	0.25 U	0.25 U	0.25 U
Methylene Chloride	5	11.4	0.18 U								
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 J	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethene	5	11	0.1 U	0.21 J	0.1 U						
Toluene	1000	1100	0.15 U	0.15 U	0.15 U	0.15 U	0.42 J	0.25 J	0.15 U	0.15 U	0.15 U
Trichloroethene	5	0.49	32	83	31	21	0.18 J	0.09 U	0.31 J	41	0.47 J
Trichlorofluoromethane	--	1100	0.15 U	0.34 J	8.2 J	0.15 U					
Xylenes, Total	10000	190	0.36 U	0.36 U	0.36 U	0.36 U	0.5 J	0.36 U	0.36 U	0.36 U	0.36 U

Notes:

All units in ug/L.

bgs - below ground surface; corresponds to approximate pump intake depth.

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9C
Detected Constituents in Interim Groundwater Samples from Overburden Wells (April 2012)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-09S	RMW-09S	RMW-10S	RMW-11S	RMW-12S	RMW-13S	RMW-13S	RMW-14S	MW-18
			64-66 RMW-09S-2	64-66 Duplicate [OIGW-DUP]	114-116 RMW-10S	64-66 RMW-11S	35-37 RMW-12S	49-51 RMW-13S-1	124-126 RMW-13S-2	27-29 RMW-14S	45.5-47.4 MW-18
Lab Sample No. Sampling Date			460-39047-003 4/11/2012	460-39047-011 4/12/2012	460-38988-008 4/10/2012	460-38988-007 4/10/2012	460-38988-005 4/10/2012	460-38988-006 4/10/2012	460-38988-003 4/10/2012	460-38988-004 4/10/2012	460-39047-010 4/12/2012
1,1,1-Trichloroethane	200	8000	0.71 J	0.77 J	0.15 J	0.06 U	0.06 U	0.06 U	0.31 J	0.06 U	8.4
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.59 J
1,1-Dichloroethene	7	280	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	2.1
Carbon tetrachloride	5	0.45	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Chloroform	80	0.22	0.08 U	0.08 U	0.16 J	0.08 U	0.08 U	0.08 U	0.13 J	0.08 U	0.08 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.62 J
Dichlorodifluoromethane	--	200	1.1	1.1	0.22 U						
Ethylbenzene	700	1.5	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.31 J	0.25 U	0.25 U	0.26 J	0.25 U	0.25 U
Methylene Chloride	5	11.4	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethene	5	11	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.56 J
Toluene	1000	1100	0.15 U	0.15 U	0.26 J	0.34 J	0.15 U	0.15 U	0.28 J	0.15 U	0.15 U
Trichloroethene	5	0.49	61	62	19	1.6	6.8	0.09 U	36	0.09 U	110
Trichlorofluoromethane	--	1100	5.4	5.5	6.2 J	0.15 U	0.6 J	0.15 U	20 J	0.15 U	0.15 U
Xylenes, Total	10000	190	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U

Notes:

All units in ug/L.

bgs - below ground surface; corresponds to approximate pump intake depth.

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9D
Detected Constituents in RMW-01D FLUTe Groundwater Samples (April 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-01D		
			138 - 153 RMW-01D-138-153 460-00054501-001 4/18/2013	200 - 215 RMW-01D-200-215 460-00054501-002 4/18/2013	298 - 318 RMW-01D-298-318 460-00054501-003 4/18/2013
1,1,1-Trichloroethane	200	8000	0.095 J	0.06 U	0.06 U
2-Butanone	--	5600	3.7 J	2.3 U	2.3 U
Acetone	--	14000	12 L	R	R
Benzene	5	0.45	0.95 J	0.08 U	0.08 U
Chloroform	80	0.22	0.73 J	0.08 U	0.26 J
Dichlorodifluoromethane	--	200	0.52 J	0.34 J	2.3
Toluene	1000	1100	19	1.1	0.69 J
Trichloroethene	5	0.49	13	11	2
Trichlorofluoromethane	--	1100	0.84 J	0.61 J	4.2
1,4-Dioxane (TIC)	--	0.46	X	NA	NA

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

L - Reported value may be biased low

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

X - Not used; FLUTE well sampling methodology produced inconsistent results

-- No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9E
Detected Constituents in FLUTe Groundwater Samples from RMW-06D (December 2012)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-06D			
			155 - 165 RMW-06D-1 460-00048795-001 12/20/2012	177 - 187 RMW-06D-2 460-00048795-002 12/20/2012	190 - 200 RMW-06D-3 460-00048795-003 12/20/2012	242 - 252 RMW-06D-4 460-00048795-004 12/20/2012
Acetone	--	14000	38	34	62	62
Benzene	5	0.45	0.08 U	0.08 U	0.08 U	0.08 U
Chloroform	80	0.22	0.08 U	0.08 U	0.08 U	0.08 U
Ethylbenzene	700	1.5	0.1 U	0.1 U	0.1 U	0.1 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U
Toluene	1000	1100	0.5 J	1.1	0.89 J	2.8
Trichloroethene	5	0.49	8.2	5.6	5.3	13
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.15 U	0.15 U
Xylenes, Total	10000	190	0.36 U	0.36 U	0.36 U	0.36 U
1,4-Dioxane	--	0.46	X	X	X	X
Formaldehyde	--	0.43	5 U	5 U	9.02 J	11.3 J

Notes:

All units in ug/L.

bgs - below ground surface

J - Estimated

L - Reported value may be biased low.

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

X - Not used; FLUTE well sampling methodology produced inconsistent results

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9E
Detected Constituents in FLUTe Groundwater Samples from RMW-06D (December 2012)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-06D			
			259 - 269 RMW-06D-5 460-00048795-005 12/20/2012	275 - 285 RMW-06D-6 460-00048795-006 12/20/2012	309 - 319 RMW-06D-7 460-00048795-007 12/20/2012	309 - 319 RMW-06D-DUP 460-00048795-008 12/20/2012
Acetone	--	14000	46	57	25	20
Benzene	5	0.45	0.08 U	0.08 U	0.38 J	0.34 J
Chloroform	80	0.22	0.08 U	0.08 U	0.3 J	0.45 J
Ethylbenzene	700	1.5	0.1 U	0.1 U	0.38 J	0.37 J
m&p-Xylene	--	190	0.25 U	0.3 J	1.1 J	1.1 J
o-Xylene	--	190	0.13 U	0.13 U	0.4 J	0.52 J
Toluene	1000	1100	2.9	12	56	63
Trichloroethene	5	0.49	5.6	20	21	21
Trichlorofluoromethane	--	1100	0.24 J	0.15 U	1.6	1.6
Xylenes, Total	10000	190	0.36 U	0.36 U	1.5 J	1.6 J
1,4-Dioxane	--	0.46	X	X	X	X
Formaldehyde	--	0.43	5 U	5 U	5 U	5 U

Notes:

All units in ug/L.

bgs - below ground surface

J - Estimated

L - Reported value may be biased low.

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

X - Not used; FLUTE well sampling methodology produced inconsistent results

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9F
Detected Constituents in FLUTE Groundwater Samples from RMW-06D (January 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-06D			
			155 - 165	177 - 187	190 - 200	242 - 252
			RMW-06D-1	RMW-06D-2	RMW-06D-3	RMW-06D-4
			460-50120-1	460-50120-2	460-50120-3	460-50120-4
			1/30/2013	1/30/2013	1/30/2013	1/30/2013
1,1,1-Trichloroethane	200	8000	0.39 J	0.25 J	0.80 J	0.51 J
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.62 J	0.090 U
Acetone	--	14000	2.7 U	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.67 J
Chloroform	80	0.22	0.080 U	0.080 U	0.080 U	0.30 J
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.35 J	0.32 J
Tetrachloroethene	5	11	0.10 U	0.10 U	0.26 J	0.17 J
Toluene	1000	1100	0.45 J	0.15 J	0.31 J	0.36 J
Trichloroethene	5	0.49	60	35	150	95
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.15 U	7.8 J
1,4-Dioxane	--	0.46	X	X	X	X

Notes:

All units in ug/L.

bgs - below ground surface

J - Estimated

L - Reported value may be biased low.

U - Not detected at Method Detection Limit (MDL) provided

X - Not used; FLUTE well sampling methodology produced inconsistent results

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9F
Detected Constituents in FLUTE Groundwater Samples from RMW-06D (January 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-06D			
			259 - 269	259 - 269	275 - 285	309 - 319
			RMW-06D-5	DUPLICATE	RMW-06D-6	RMW-06D-7
			460-50120-5	460-50120-8	460-50120-6	460-50120-7
			1/30/2013	1/30/2013	1/30/2013	1/30/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.28 J	0.42 J	0.20 J
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	0.090 U
Acetone	--	14000	290	28	14	36
Benzene	5	0.45	0.35 J	0.080 U	0.080 U	0.080 U
Carbon tetrachloride	5	0.45	0.26 J	0.30 J	0.73 J	0.16 J
Chloroform	80	0.22	0.26 J	0.22 J	0.25 J	0.51 J
cis-1,2-Dichloroethene	70	36	0.22 J	0.28 J	0.33 J	0.18 U
Tetrachloroethene	5	11	0.10 U	0.11 J	0.17 J	0.10 U
Toluene	1000	1100	5.4	1.1	2.4	1.4
Trichloroethene	5	0.49	51	66	96	36
Trichlorofluoromethane	--	1100	1.7 J	2.1 J	8.2 J	1.2 J
1,4-Dioxane	--	0.46	X	X	X	X

Notes:

All units in ug/L.

bgs - below ground surface

J - Estimated

L - Reported value may be biased low.

U - Not detected at Method Detection Limit (MDL) provided

X - Not used; FLUTE well sampling methodology produced inconsistent results

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9G
Detected Constituents in RMW-09D FLUTe Groundwater Samples (April 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-09D			
			95 - 105 RMW-09D-95-105 460-54413-4 4/17/2013	115 - 125 RMW-09D-115-125 460-54413-5 4/17/2013	146 - 156 RMW-09D-146-156 460-54413-6 4/17/2013	176 - 186 RMW-09D-176-186 460-00054501-004 4/18/2013
1,1,1-Trichloroethane	200	8000	0.44 J	0.3 J	0.25 J	0.18 J
1,1-Dichloroethene	7	280	0.17 J	0.09 U	0.09 U	0.09 U
2-Butanone	--	5600	2.3 U	2.3 U	2.3 U	2.3 U
Acetone	--	14000	18 L	25 L	R	33 L
Benzene	5	0.45	0.08 U	1.5	0.43 J	0.13 J
Carbon tetrachloride	5	0.45	0.28 J	0.06 U	0.06 U	0.1 J
Chloroform	80	0.22	0.18 J	2.7	0.62 J	0.4 J
cis-1,2-Dichloroethene	70	36	0.21 J	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	2.9	2	3.5	3.3
Toluene	1000	1100	1.4	27	9.6	4.4
Trichloroethene	5	0.49	57	43	28	17
Trichlorofluoromethane	--	1100	8.9	6	6.7	6.3
1,4-Dioxane (TIC)	--	0.46	NA	NA	NA	X

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

L - Reported value may be biased low

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

X - Not used; FLUTE well sampling methodology produced inconsistent results

-- No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9G
Detected Constituents in RMW-09D FLUTe Groundwater Samples (April 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-09D	
			205 - 215 RMW-09D-205-215 460-00054501-005 4/18/2013	235 - 245 RMW-09D-235-245 460-00054501-006 4/18/2013
1,1,1-Trichloroethane	200	8000	0.12 J	0.06 U
1,1-Dichloroethene	7	280	0.09 U	0.09 U
2-Butanone	--	5600	2.3 U	2.3 U
Acetone	--	14000	8.5 L	150 L
Benzene	5	0.45	0.36 J	0.15 J
Carbon tetrachloride	5	0.45	0.06 U	0.06 U
Chloroform	80	0.22	2.3	0.55 J
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	3.7	0.58 J
Toluene	1000	1100	80	34
Trichloroethene	5	0.49	9.5	4.7
Trichlorofluoromethane	--	1100	5.8	0.98 J
1,4-Dioxane (TIC)	--	0.46	NA	NA

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

L - Reported value may be biased low

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

X - Not used; FLUTE well sampling methodology produced inconsistent results

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9H
Detected Constituents in RMW-11D FLUTe Groundwater Samples (April 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth Range (feet bgs) Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-11D		
			90 - 105 RMW-11D-90-105 460-54413-1 4/17/2013	117 - 127 RMW-11D-117-127 460-54413-2 4/17/2013	150 - 160 RMW-11D-150-160 460-54413-3 4/17/2013
1,1,1-Trichloroethane	200	8000	0.2 J	0.2 J	0.06 U
Acetone	--	14000	R	R	24 L
Benzene	5	0.45	0.08 U	0.08 U	0.34 J
Chloroform	80	0.22	0.45 J	1.2	1.4
Dichlorodifluoromethane	--	200	0.51 J	0.59 J	0.22 U
Toluene	1000	1100	0.57 J	4.4	15
Trichloroethylene	5	0.49	29	25	1.3
Trichlorofluoromethane	--	1100	3	3.1	0.29 J

Notes:

All units in ug/L.

bgs - below ground surface

B - Detected in associated blank sample

J - Estimated

L - Reported value may be biased low

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	CH-2	CH-3	CH-3A	CH-4	CH-5	CH-7	CH-8	CH-9
			22.5	78	12.5	52.5	35	35	35	39
			On-site	On-site	On-site	On-site	On-site	On-site	On-site	On-site
			CH-2-051613-22.5	CH-3-051413-78	CH-3A-051413-12.5	CH-4-051513-52.5	CH-5-051613-35	CH-7-051613-35	CH-8-051613-35	CH-9-051613-39
			460-56273-6	460-56074-6	460-56074-7	460-56233-7	460-56273-8	460-56273-2	460-56273-3	460-56273-7
			05/16/2013	05/14/2013	05/14/2013	05/15/2013	05/16/2013	05/16/2013	05/16/2013	05/16/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
1,2-Dichlorobenzene	600	300	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	75	0.48	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone	--	5600	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2-Chloroethyl vinyl ether	--	--	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Acetone	--	14000	2.7 U	R	R	R	2.7 U	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethylene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	0.40 J	0.56 J	0.16 J	0.50 J	0.48 J	0.55 J	0.56 J	0.26 J
Trichloroethylene	5	0.49	0.090 U	0.11 J	0.090 U	0.13 J	0.090 U	0.090 U	0.090 U	0.43 J
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	NA	NA	0.31 U
Formaldehyde	--	0.43	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	70	1.1	0.20 U	0.19 U	0.20 U	0.19 U	0.20 U	0.21 U	0.19 U	0.19 U
Hexachloroethane	--	0.9	NA	0.15 U	0.16 U	NA	NA	0.16 U	0.15 U	NA
Aluminum	50 to 200	20000	NA	NA	NA	NA	NA	2300	1930 B	NA
Barium	2000	3800	NA	NA	NA	NA	NA	48.9 J	108 J	NA
Cadmium	5	9.2	NA	NA	NA	NA	NA	0.82 U	0.82 U	NA
Calcium	--	--	NA	NA	NA	NA	NA	12300	26200	NA
Chromium	100	22000 / 0.035*	NA	NA	NA	NA	NA	4.5 U	4.5 U	NA
Cobalt	--	6	NA	NA	NA	NA	NA	4.3 J	11.7 J	NA
Copper	1300	800	NA	NA	NA	NA	NA	7.8 U	7.8 U	NA
Iron	300	14000	NA	NA	NA	NA	NA	7570 L	2260 L	NA
Lead	15	15	NA	NA	NA	NA	NA	4.0 U	4.0 U	NA
Magnesium	--	--	NA	NA	NA	NA	NA	3000 J	6610	NA
Manganese	50	430	NA	NA	NA	NA	NA	2980	2660	NA
Mercury	2	0.63	NA	NA	NA	NA	NA	0.16 U	0.16 U	NA
Nickel	--	390	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	CH-2	CH-3	CH-3A	CH-4	CH-5	CH-7	CH-8	CH-9
			22.5 On-site CH-2-051613-22.5	78 On-site CH-3-051413-78	12.5 On-site CH-3A-051413-12.5	52.5 On-site CH-4-051513-52.5	35 On-site CH-5-051613-35	35 On-site CH-7-051613-35	35 On-site CH-8-051613-35	39 On-site CH-9-051613-39
			460-56273-6 05/16/2013	460-56074-6 05/14/2013	460-56074-7 05/14/2013	460-56233-7 05/15/2013	460-56273-8 05/16/2013	460-56273-2 05/16/2013	460-56273-3 05/16/2013	460-56273-7 05/16/2013
Potassium	--	--	NA	NA	NA	NA	NA	2190 J	2680 J	NA
Sodium	20000	--	NA	NA	NA	NA	NA	5360	12900	NA
Zinc	5000	6000	NA	NA	NA	NA	NA	19.0 J	10.7 J	NA
Alkalinity (mg/l)	--	--	NA	NA	NA	NA	NA	39.9	128	NA
Ammonia (mg/l)	--	--	NA	NA	NA	NA	NA	0.22 K	0.080 U	NA
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	NA	39.9	128	NA
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	NA	1.9 L	1.7 UL	NA
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA
Chemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	NA	15.6	15.6	NA
Chloride (mg/l)	250	--	NA	NA	NA	NA	NA	3.0 J	9	NA
Cyanide, Total (mg/l)	0.2	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	NA	1.2 B	0.73 B	NA
Ethane	--	--	NA	NA	NA	NA	NA	4.0 U	4.0 U	NA
Ferric Iron (mg/l)	--	--	NA	NA	NA	NA	NA	7.6 L	2.1L	NA
Ferrous Iron (mg/l)	--	--	NA	NA	NA	NA	NA	0.023 UL	0.14 L	NA
Iron	300	14000	NA	NA	NA	NA	NA	7570 L	2260 L	NA
Methane	--	--	NA	NA	NA	NA	NA	2.0 U	2.1	NA
Nitrate as N (mg/l)	10	32	NA	NA	NA	NA	NA	0.049 L	0.047 U	NA
Nitrite as N (mg/l)	1	2	NA	NA	NA	NA	NA	0.0041 UL	0.018 J	NA
Orthophosphate as P (mg/l)	--	--	NA	NA	NA	NA	NA	0.010 UL	0.010 U	NA
Phosphorus as P (mg/l)	--	--	NA	NA	NA	NA	NA	0.33	0.13	NA
Sulfate (mg/l)	250	--	NA	NA	NA	NA	NA	12.4	30.3	NA
Total Dissolved Solids (mg/l)	500	--	NA	NA	NA	NA	NA	64	136	NA
Total Kjeldahl Nitrogen (mg/l)	--	--	NA	NA	NA	NA	NA	0.32	0.24	NA
Total Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	NA	0.98 B	1.1B	NA
Total Suspended Solids (mg/l)	--	--	NA	NA	NA	NA	NA	205	45	NA
Dehalococcoides (CEQ/ml)	--	--	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Location Depth (feet bgs) Placement Sample ID	Most Stringent EPA Groundwater RSL	CH-10	CH-11	CH-12	EPA-1D	EPA-2DR	EPA-3D		FWEC-4R
Lab Sample No.	45	75	65.5	169	114	161	161 (Duplicate)	160		
Sampling Date	On-site	On-site	On-site	Oak Hill Rd	CertainTeed	HPG	HPG	Oak Hill Rd		
	CH-10-051513-45	CH-11-051713-75	CH-12-051613-65.5	EPA-10-052213-169	EPA-2DR-052113-114	EPA-3D-051013-161	GW-RD1-Duple	FWEC-4R-051413-160		
	460-56233-6	460-56359-5	460-56273-13	460-56586-8	460-56505-1	460-55866-6	460-55866-8	460-56074-8		
	05/15/2013	05/17/2013	05/16/2013	05/22/2013	05/21/2013	05/10/2013	05/10/2013	05/14/2013		
1,1,1-Trichloroethane	200	8000	0.11 J	0.060 U	0.060 U	2.6	0.060 U	0.060 U	0.060 U	0.060 U
1,1-Dichloroethane	--	2.7	2	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	0.090 U	0.59 J	0.090 U	0.090 U	0.090 U
1,2-Dichlorobenzene	600	300	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	75	0.48	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone	--	5600	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2-Chloroethyl vinyl ether	--	--	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Acetone	--	14000	R	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	R
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.080 U	0.080 U	0.080 U	0.080 U	0.12 B	0.080 U	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.35 J	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethylene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	0.32 J	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	2.5	1.4	0.92 J	0.72 B	1 B	1.6	2.2	2.2
Trichloroethene	5	0.49	0.23 J	0.090 U	0.16 J	0.13 J	160	0.90 J	0.71 J	0.49 J
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	2.3
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.31 U	0.31 U	0.31 U	0.31 U	0.74 J	0.31 U	0.31 U	0.31 U
Formaldehyde	--	0.43	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	70	1.1	0.19 U	0.19 U	0.20 U	NA	0.19 U	NA	NA	NA
Hexachloroethane	--	0.9	NA	NA	0.16 U	NA	NA	NA	NA	NA
Aluminum	50 to 200	20000	NA	NA	279	NA	NA	NA	NA	NA
Barium	2000	3800	NA	NA	32.8 J	NA	NA	NA	NA	NA
Cadmium	5	9.2	NA	NA	0.82 U	NA	NA	NA	NA	NA
Calcium	--	--	NA	NA	16300	NA	NA	NA	NA	NA
Chromium	100	22000 / 0.035*	NA	NA	4.5 U	NA	NA	NA	NA	NA
Cobalt	--	6	NA	NA	4.3 U	NA	NA	NA	NA	NA
Copper	1300	800	NA	NA	7.8 U	NA	NA	NA	NA	NA
Iron	300	14000	NA	NA	485 L	NA	NA	NA	NA	NA
Lead	15	15	NA	NA	4.0 U	NA	NA	NA	NA	NA
Magnesium	--	--	NA	NA	2640 J	NA	NA	NA	NA	NA
Manganese	50	430	NA	NA	28.2	NA	NA	NA	NA	NA
Mercury	2	0.63	NA	NA	0.16 U	NA	NA	NA	NA	NA
Nickel	--	390	NA	NA	5.0 U	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Location Depth (feet bgs) Placement Sample ID	Location Depth (feet bgs) Placement Sample ID	CH-10	CH-11	CH-12	EPA-1D	EPA-2DR	EPA-3D		FWEC-4R
Lab Sample No.	Drinking Water MCL	Most Stringent EPA Groundwater RSL	45 On-site CH-10-051513-45	75 On-site CH-11-051713-75	65.5 On-site CH-12-051613-65.5	169 Oak Hill Rd EPA-10-052213-169	114 CertainTeed EPA-2DR-052113-114	161 HPG EPA-3D-051013-161	161 (Duplicate) HPG GW-RD1-Duple	160 Oak Hill Rd FWEC-4R-051413-160
Sampling Date			460-56233-6 05/15/2013	460-56359-5 05/17/2013	460-56273-13 05/16/2013	460-56586-8 05/22/2013	460-56505-1 05/21/2013	460-55866-6 05/10/2013	460-55866-8 05/10/2013	460-56074-8 05/14/2013
Potassium	--	--	NA	NA	667 J	NA	NA	NA	NA	NA
Sodium	20000	--	NA	NA	9140	NA	NA	NA	NA	NA
Zinc	5000	6000	NA	NA	5.8 U	NA	NA	NA	NA	NA
Alkalinity (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Chloride (mg/l)	250	--	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total (mg/l)	0.2	0.0015	NA	NA	0.0040 U	NA	NA	NA	NA	NA
Dissolved Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Ferric Iron (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	14000	NA	NA	NA	NA	NA	NA	NA	NA
Methane	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N (mg/l)	10	32	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite as N (mg/l)	1	2	NA	NA	NA	NA	NA	NA	NA	NA
Orthophosphate as P (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus as P (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (mg/l)	250	--	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (mg/l)	500	--	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Dehalococcoides (CEQ/ml)	--	--	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Depth (feet bgs)	Placement	FWEC-5R	FWEC-5S	FWEC-6M	FWEC-6R	FWEC-6S	MW-1	MW-2	MW-3
Sample ID			120.3 Oak Hill Rd FWEC-5R-050813-120.3	38 Oak Hill Rd FWEC-5S-050813-38	75.3 Church Rd FWEC-6M-051013-75.3	170 Church Rd FWEC-6R-051013-170	40.9 Church Rd FWEC-065-050713-40.9	50 On-site MW-01-051613-50	50 On-site MW-2-051513-50	50 On-site MW-3-051513-50
Lab Sample No.			460-55697-6	460-55697-9	460-55866-5	460-55866-4	460-55697-2	460-56273-9	460-56233-13	460-56233-14
Sampling Date			05/08/2013	05/08/2013	05/10/2013	05/10/2013	05/07/2013	05/16/2013	05/15/2013	05/15/2013
1,1,1-Trichloroethane	200	8000	0.06 U	0.06 U	0.060 U	0.060 U	0.06 U	0.060 U	3.1 J	0.99 J
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.83 J	0.65 U
1,1-Dichloroethene	7	280	0.09 U	0.09 U	0.090 U	0.090 U	0.09 U	0.090 U	1.2 J	0.45 U
1,2-Dichlorobenzene	600	300	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.1 U	1.1 U
1,4-Dichlorobenzene	75	0.48	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.2 U	1.2 U
2-Butanone	--	5600	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	12 U	12 U
2-Chloroethyl vinyl ether	--	--	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	100 UJ	100 UJ
Acetone	--	14000	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	R	R
Benzene	5	0.45	0.08 U	0.08 U	0.080 U	0.080 U	0.08 U	0.080 U	0.40 U	0.40 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.60 U	0.60 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.65 U	0.65 U
Carbon tetrachloride	5	0.45	0.06 U	0.06 U	0.060 U	0.060 U	0.06 U	0.060 U	0.30 U	0.30 U
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.55 U	0.55 U
Chloroform	80	0.22	0.08 U	0.08 U	0.080 U	0.080 U	0.08 U	0.080 U	0.40 U	0.40 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	9.5	3.5 J
Dichlorodifluoromethane	--	200	6.5	0.89 J	0.22 U	0.22 U	0.22 U	0.22 U	1.1 U	1.1 U
Ethylbenzene	700	1.5	0.1 U	0.1 U	0.10 U	0.10 U	0.1 U	0.10 U	0.50 U	0.50 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	1.3 U	1.3 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.65 U	0.65 U
Tetrachloroethylene	5	11	0.1 U	0.1 U	0.10 U	0.10 U	0.1 U	0.10 U	3.8 J	2.9 J
Toluene	1000	1100	1.5	0.28 J	1	1.1	0.43 J	0.52 J	0.75 U	0.75 U
Trichloroethylene	5	0.49	0.09 U	0.09 U	0.090 U	0.56 J	0.09 U	0.75 J	2400	650
Trichlorofluoromethane	--	1100	3	0.59 J	0.15 U	0.15 U	0.15 U	0.15 U	0.75 U	0.75 U
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.70 U	0.70 U
Xylenes, Total	10000	190	0.36 U	0.36 U	0.13 U	0.13 U	0.36 U	0.13 U	0.65 U	0.65 U
1,4-Dioxane	--	0.46	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Formaldehyde	--	0.43	5 U	5 U	5.00 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	70	1.1	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.19 U
Hexachloroethane	--	0.9	NA	NA	NA	NA	NA	NA	0.15 U	0.15 U
Aluminum	50 to 200	20000	NA	NA	NA	NA	NA	NA	99.2 J	99.8 J
Barium	2000	3800	NA	NA	NA	NA	NA	NA	46.6 J	42.9 J
Cadmium	5	9.2	NA	NA	NA	NA	NA	NA	0.82 U	0.82 U
Calcium	--	--	NA	NA	NA	NA	NA	NA	12500	9370
Chromium	100	22000 / 0.035*	NA	NA	NA	NA	NA	NA	4.5 U	4.5 U
Cobalt	--	6	NA	NA	NA	NA	NA	NA	4.3 U	4.3 U
Copper	1300	800	NA	NA	NA	NA	NA	NA	7.8 U	7.8 U
Iron	300	14000	NA	NA	NA	NA	NA	NA	98.7 J	182
Lead	15	15	NA	NA	NA	NA	NA	NA	4.0 U	4.0 U
Magnesium	--	--	NA	NA	NA	NA	NA	NA	2620 J	1910 J
Manganese	50	430	NA	NA	NA	NA	NA	NA	4.3 U	9.0 J
Mercury	2	0.63	NA	NA	NA	NA	NA	NA	0.16 U	0.16 U
Nickel	--	390	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	FWEC-5R	FWEC-5S	FWEC-6M	FWEC-6R	FWEC-6S	MW-1	MW-2	MW-3
Lab Sample No.			120.3 Oak Hill Rd FWEC-5R-050813-120.3	38 Oak Hill Rd FWEC-5S-050813-38	75.3 Church Rd FWEC-6M-051013-75.3	170 Church Rd FWEC-6R-051013-170	40.9 Church Rd FWEC-065-050713-40.9	50 On-site MW-01-051613-50	50 On-site MW-2-051513-50	50 On-site MW-3-051513-50
Sampling Date			460-55697-6 05/08/2013	460-55697-9 05/08/2013	460-55866-5 05/10/2013	460-55866-4 05/10/2013	460-55697-2 05/07/2013	460-56273-9 05/16/2013	460-56233-13 05/15/2013	460-56233-14 05/15/2013
Potassium	--	--	NA	NA	NA	NA	NA	NA	721 J	1190 J
Sodium	20000	--	NA	NA	NA	NA	NA	NA	7590	8800
Zinc	5000	6000	NA	NA	NA	NA	NA	NA	5.8 U	8.0 J
Alkalinity (mg/l)	--	--	NA	NA	NA	NA	NA	NA	38.5	27.1
Ammonia (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.080 U	0.080 U
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	NA	NA	38.5	27.1
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	NA	NA	1.7 U	1.7 U
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U
Chemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	NA	NA	8.7 U	8.7 U
Chloride (mg/l)	250	--	NA	NA	NA	NA	NA	NA	9	6
Cyanide, Total (mg/l)	0.2	0.0015	NA	NA	NA	NA	NA	NA	0.0061 B	0.0063 B
Dissolved Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	NA	NA	1.1 B	1.0 B
Ethane	--	--	NA	NA	NA	NA	NA	NA	0.49 U	0.49 U
Ferric Iron (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.10 UL	0.10 UL
Ferrous Iron (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.13 B	0.12 L
Iron	300	14000	NA	NA	NA	NA	NA	NA	98.7 J	182
Methane	--	--	NA	NA	NA	NA	NA	NA	0.22 U	110
Nitrate as N (mg/l)	10	32	NA	NA	NA	NA	NA	NA	0.55	0.69
Nitrite as N (mg/l)	1	2	NA	NA	NA	NA	NA	NA	0.025 J	0.024 J
Orthophosphate as P (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.039	0.035
Phosphorus as P (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.13	0.055
Sulfate (mg/l)	250	--	NA	NA	NA	NA	NA	NA	9.4	12.4
Total Dissolved Solids (mg/l)	500	--	NA	NA	NA	NA	NA	NA	70	68
Total Kjeldahl Nitrogen (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.15 U	0.25
Total Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.69 B	1.1 B
Total Suspended Solids (mg/l)	--	--	NA	NA	NA	NA	NA	NA	10.0 U	10.0 U
Dehalococcoides (CEQ/ml)	--	--	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Most Stringent EPA Groundwater RSL	MW-4	MW-5	MW-6	MW-7	MW-7S	MW-8	MW-9	MW-9D
200	52	8000	0.60 U	0.060 U	0.060 U	30	60	0.060 U	0.060 U	0.060 U
--	On-site	2.7	1.3 U	0.13 U	0.13 U	2.1	9.2	0.13 U	0.13 U	0.13 U
7	MW-4-051613-52	280	0.90 U	0.090 U	0.090 U	7.4	11	0.090 U	0.090 U	0.090 U
600	MW-5-052013-285	300	2.1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
75	460-56273-4	0.48	2.3 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
--	05/16/2013	460-56436-4	460-56436-4	460-56586-2	460-56359-3	460-56359-2	460-56436-2	460-56233-11	460-56436-6	460-56436-6
200	5	5600	23 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
--	--	14000	27 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	R	2.7 U
100	5	0.45	0.80 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
80	Bromodichloromethane	0.13	1.2 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
--	Carbon disulfide	810	1.3 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
5	Carbon tetrachloride	0.45	0.60 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
100	Chlorobenzene	78	1.1 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
80	Chloroform	0.22	0.80 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
70	cis-1,2-Dichloroethene	36	7.6 J	0.18 U	0.18 U	1.4	4.7	0.18 U	0.18 U	0.18 U
--	Dichlorodifluoromethane	200	2.2 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	7.7
700	Ethylbenzene	1.5	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
--	m&p-Xylene	190	2.5 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
--	o-Xylene	190	1.3 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
5	Tetrachloroethylene	11	3.7 J	0.10 U	0.10 U	2.6	3.6	0.10 U	0.10 U	0.10 U
1000	Toluene	1100	1.6 J	1.4	0.15 U	1.9	0.46 B	1.6	0.71 J	2.3
5	Trichloroethylene	0.49	3600	3.3	0.68 J	62	16	0.090 U	0.090 U	0.45 J
--	Trichlorofluoromethane	1100	1.5 U	0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 UJ	0.15 U	6.1 J
2	Vinyl chloride	0.019	1.4 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
10000	Xylenes, Total	190	1.3 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
--	1,4-Dioxane	0.46	NA	0.31 U	0.31 U	0.31 U	38	0.31 U	0.31 U	0.31 U
--	Formaldehyde	0.43	5.00 U	5.00 U	5.00 U	9.10 J	5.00 U	5.00 U	5.00 U	5.00 U
70	1,2,4-Trichlorobenzene	1.1	0.36 J	0.19 U	0.19 U	0.20 U				
--	Hexachloroethane	0.9	0.15 U	NA	0.15 U	0.15 U	0.15 U	NA	0.15 U	0.16 U
50 to 200	Aluminum	20000	72.1 U	NA	179 J	77.4 J	350	NA	72.1 U	72.1 U
2000	Barium	3800	107 J	NA	71.0 J	78.5 J	110 J	NA	10.0 J	45.7 J
5	Cadmium	9.2	0.82 U	NA	0.82 U	0.82 U	0.82 U	NA	0.82 U	0.82 U
--	Calcium	--	11200	NA	11300	9550	5660	NA	1490 J	59000
100	Chromium	22000 / 0.035*	4.5 U	NA	8.5 J	4.5 U	4.5 U	NA	4.5 U	4.5 U
--	Cobalt	6	4.3 U	NA	4.3 U	4.3 U	4.3 U	NA	4.3 U	4.3 U
1300	Copper	800	7.8 U	NA	7.8 U	7.8 U	7.8 U	NA	7.8 U	7.8 U
300	Iron	14000	73.6 UL	NA	53400	130 J	190	NA	73.6 U	73.6 U
15	Lead	15	4.0 U	NA	4.0 U	4.0 U	4.0 U	NA	4.0 U	4.0 U
--	Magnesium	--	3420 J	NA	2120 J	2390 J	3200 J	NA	487 J	4840 J
50	Manganese	430	275	NA	837	78.6	185	NA	6.4 J	4.3 U
2	Mercury	0.63	0.16 U	NA	0.16 U	0.16 U	0.16 U	NA	0.16 U	0.16 U
--	Nickel	390	6.2 J	NA	5.0 U	5.0 U	6.3 J	NA	5.0 U	5.0 U

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	MW-4	MW-5	MW-6	MW-7	MW-7S	MW-8	MW-9	MW-9D
			52	285	95	80	50	70	55.5	151
			On-site	On-site	On-site	On-site	On-site	On-site	On-site	On-site
			MW-4-051613-52	MW-5-052013-285	MW-6-052213-95	MW-7-051713-80	MW-7S-051713-50	MW-8-052013-70	MW-9-051513-55.5	MW-9D-052013-151
			460-56273-4	460-56436-4	460-56586-2	460-56359-3	460-56359-2	460-56436-2	460-56233-11	460-56436-6
			05/16/2013	05/20/2013	05/22/2013	05/17/2013	05/17/2013	05/20/2013	05/15/2013	05/20/2013
Potassium	--	--	900 J	NA	1030 J	1060 J	2010 J	NA	525 U	1030 J
Sodium	20000	--	12900	NA	23900	24000	22800	NA	1450 J	4980 J
Zinc	5000	6000	10.0 J	NA	5.8 U	9.6 J	20.9 J	NA	5.8 U	5.8 U
Alkalinity (mg/l)	--	--	23.5	NA	NA	12.8	5.0 U	NA	NA	NA
Ammonia (mg/l)	--	--	0.080 U	NA	NA	0.080 U	0.54	NA	NA	NA
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	23.5	NA	NA	12.8	5.0 U	NA	NA	NA
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	1.7 UL	NA	NA	1.7 UL	1.7 UL	NA	NA	NA
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	NA
Chemical Oxygen Demand (mg/l)	--	--	8.7 U	NA	NA	8.7 U	8.7 U	NA	NA	NA
Chloride (mg/l)	250	--	24.5	NA	NA	37	36	NA	NA	NA
Cyanide, Total (mg/l)	0.2	0.0015	NA	NA	0.0040 U	NA	NA	NA	0.0066 B	0.0040 U
Dissolved Organic Carbon (mg/l)	--	--	1.2 B	NA	NA	0.87 B	0.94 B	NA	NA	NA
Ethane	--	--	4.0 U	NA	NA	4.0 U	4.0 U	NA	NA	NA
Ferric Iron (mg/l)	--	--	0.023 UL	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron (mg/l)	--	--	0.023 UL	NA	NA	R	0.054 UL	NA	NA	NA
Iron	300	14000	73.6 UL	NA	NA	130 J	190	NA	NA	NA
Methane	--	--	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	NA
Nitrate as N (mg/l)	10	32	1.1 L	NA	NA	0.71	0.63	NA	NA	NA
Nitrite as N (mg/l)	1	2	0.023 L	NA	NA	0.0041 U	0.0041 U	NA	NA	NA
Orthophosphate as P (mg/l)	--	--	0.010 U	NA	NA	0.013 L	0.020 L	NA	NA	NA
Phosphorus as P (mg/l)	--	--	0.13 L	NA	NA	0.35	0.022 J	NA	NA	NA
Sulfate (mg/l)	250	--	12.1	NA	NA	18.9	17.1	NA	NA	NA
Total Dissolved Solids (mg/l)	500	--	110	NA	NA	108	104	NA	NA	NA
Total Kjeldahl Nitrogen (mg/l)	--	--	0.15 U	NA	NA	0.15 U	0.15 U	NA	NA	NA
Total Organic Carbon (mg/l)	--	--	1.2 B	NA	NA	1.4 B	1.1 B	NA	NA	NA
Total Suspended Solids (mg/l)	--	--	10.0 U	NA	NA	10.0 U	10.0 U	NA	NA	NA
Dehalococcoides (CEQ/ml)	--	--	< 1	NA	NA	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Location Depth (feet bgs) Placement Sample ID	Most Stringent EPA Groundwater RSL	MW-10	MW-10D	MW-11R	MW-12D	MW-12R		MW-13	MW-14D
Lab Sample No.	Drinking Water MCL		65.5 On-site MW-10-051513-65.5	146 On-site MW-10D-051513-146	85 On-site MW-11R-051413-85	90 On-site MW-12D-051413-90	50 On-site MW-12R-051413-50	50 (Duplicate) On-site GW-RD1-DUP4	345 On-site MW-13-052013-345	189 On-site MW-14D-051613-189
Sampling Date			460-56233-9 05/15/2013	460-56233-10 05/15/2013	460-56074-1 05/14/2013	460-56074-2 05/14/2013	460-56074-5 05/14/2013	460-56074-4 05/14/2013	460-56436-3 05/20/2013	460-56273-18 05/16/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	1.4	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.41 J	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
1,2-Dichlorobenzene	600	300	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	75	0.48	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone	--	5600	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2-Chloroethyl vinyl ether	--	--	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Acetone	--	14000	R	R	R	R	R	R	2.7 U	2.7 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethylene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	0.62 J	3.7	0.80 J	0.62 J	0.40 J	1	2.8	1.4
Trichloroethene	5	0.49	0.62 J	0.29 J	28	0.090 U	0.090 U	0.090 U	2.1	3.5
Trichlorofluoromethane	--	1100	0.31 J	0.87 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 UJ	0.28 J
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Formaldehyde	--	0.43	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	70	1.1	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Hexachloroethane	--	0.9	0.15 U	0.20 J	0.15 U	0.15 U	0.15 U	0.15 U	NA	0.15 U
Aluminum	50 to 200	20000	72.1 U	135 J	NA	NA	NA	NA	NA	79.5 J
Barium	2000	3800	54.9 J	91.1 J	NA	NA	NA	NA	NA	50.9 J
Cadmium	5	9.2	0.82 U	0.82 U	NA	NA	NA	NA	NA	0.82 U
Calcium	--	--	20900	36100	NA	NA	NA	NA	NA	69200
Chromium	100	22000 / 0.035*	4.5 U	4.5 U	NA	NA	NA	NA	NA	4.5 U
Cobalt	--	6	4.3 U	4.3 U	NA	NA	NA	NA	NA	4.3 U
Copper	1300	800	7.8 U	7.8 U	NA	NA	NA	NA	NA	7.8 U
Iron	300	14000	73.6 U	76.6 J	NA	NA	NA	NA	NA	73.6 UL
Lead	15	15	4.0 U	4.0 U	NA	NA	NA	NA	NA	54.3
Magnesium	--	--	2860 J	2960 J	NA	NA	NA	NA	NA	6620
Manganese	50	430	4.3 U	59.6	NA	NA	NA	NA	NA	4.3 U
Mercury	2	0.63	0.16 U	0.16 U	NA	NA	NA	NA	NA	0.16 U
Nickel	--	390	5.0 U	5.0 U	NA	NA	NA	NA	NA	5.0 U

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	MW-10 65.5 On-site MW-10-051513-65.5	MW-10D 146 On-site MW-10D-051513-146	MW-11R 85 On-site MW-11R-051413-85	MW-12D 90 On-site MW-12D-051413-90	MW-12R 50 (Duplicate) On-site MW-12R-051413-50		MW-13 345 On-site MW-13-052013-345	MW-14D 189 On-site MW-14D-051613-189
Potassium	--	--	528 J	728 J	NA	NA	NA		NA	1250 J
Sodium	20000	--	7160	3970 J	NA	NA	NA		NA	12600
Zinc	5000	6000	5.8 U	5.8 U	NA	NA	NA		NA	5.8 U
Alkalinity (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Ammonia (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Chemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Chloride (mg/l)	250	--	NA	NA	NA	NA	NA		NA	NA
Cyanide, Total (mg/l)	0.2	0.0015	0.0063 B	0.0068 B	NA	NA	NA		NA	0.0040 U
Dissolved Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Ethane	--	--	NA	NA	NA	NA	NA		NA	NA
Ferric Iron (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Ferrous Iron (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Iron	300	14000	NA	NA	NA	NA	NA		NA	NA
Methane	--	--	NA	NA	NA	NA	NA		NA	NA
Nitrate as N (mg/l)	10	32	NA	NA	NA	NA	NA		NA	NA
Nitrite as N (mg/l)	1	2	NA	NA	NA	NA	NA		NA	NA
Orthophosphate as P (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Phosphorus as P (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Sulfate (mg/l)	250	--	NA	NA	NA	NA	NA		NA	NA
Total Dissolved Solids (mg/l)	500	--	NA	NA	NA	NA	NA		NA	NA
Total Kjeldahl Nitrogen (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Total Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Total Suspended Solids (mg/l)	--	--	NA	NA	NA	NA	NA		NA	NA
Dehalococcoides (CEQ/ml)	--	--	NA	NA	NA	NA	NA		NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Most Stringent EPA Groundwater RSL	MW-14M	MW-14S	MW-15S	MW-16S	MW-17	MW-18		MW-19
			128 On-site MW-14M-051513-128 460-56233-8 05/15/2013	73 On-site MW-14S-051513-73 460-56233-15 05/15/2013	55 On-site MW-15S-052013-55 460-56436-8 05/20/2013	43.5 On-site MW-16S-052013-43.5 460-56436-7 05/20/2013	89 On-site MW-17-051413-89 460-56233-3 / 460-56074-18 05/14/2013	45 On-site MW-18-051413-45 460-56074-10 05/14/2013	45 (Duplicate) On-site GW-RD1-DUP1 460-56074-9 05/14/2013	57 On-site MW-19-051413-57 460-56074-3 05/14/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.16 J	0.060 U	1.6	1.6	9.7	10	0.060 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	4.3	0.13 J	0.69 J	0.75 J	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	0.090 U	0.41 J	2.2	2.4	0.090 U
1,2-Dichlorobenzene	600	300	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	75	0.48	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone	--	5600	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2-Chloroethyl vinyl ether	--	--	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Acetone	--	14000	R	R	2.7 U	2.7 U	R	R	R	R
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.21 J	0.18 U	1.1	0.26 J	0.81 J	0.89 J	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethylene	5	11	0.10 U	0.14 J	0.10 U	0.28 J	0.19 J	0.66 J	0.74 J	0.10 U
Toluene	1000	1100	2	0.73 J	0.64 J	1.8	0.70 J	0.18 J	0.19 J	1.1
Trichloroethylene	5	0.49	3.5	67	0.090 U	1.2	52	140	140	1.1
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.15 UJ	0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 U
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.31 U	0.31 U	0.31 U	14	0.31 U	NA	NA	0.31 U
Formaldehyde	--	0.43	5.00 U	5.00 U	5.00 U	18.8 B	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	70	1.1	0.19 U	0.19 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	0.19 U
Hexachloroethane	--	0.9	0.15 U	0.15 U	0.16 U	0.16 U	NA	0.16 U	0.16 U	0.15 U
Aluminum	50 to 200	20000	125 J	72.1 U	673	778	NA	72.1 U	72.1 U	NA
Barium	2000	3800	39.3 J	19.6 J	27.1 J	52.8 J	NA	41.6 J	41.3 J	NA
Cadmium	5	9.2	0.82 U	0.82 U	0.82 U	2.9 J	NA	0.82 U	0.82 U	NA
Calcium	--	--	70200	14100	5660	26400	NA	9710	9690	NA
Chromium	100	22000 / 0.035*	4.5 U	4.5 U	4.5 U	4.5 U	NA	4.5 U	4.5 U	NA
Cobalt	--	6	4.3 U	4.3 U	4.3 U	4.3 U	NA	4.3 U	4.3 U	NA
Copper	1300	800	7.8 U	7.8 U	7.8 U	7.8 U	NA	7.8 U	7.8 U	NA
Iron	300	14000	114 J	73.6 U	1080	32100	NA	73.6 U	73.6 U	NA
Lead	15	15	20.6	4.0 U	4.0 U	5.8	NA	4.0 U	4.0 U	NA
Magnesium	--	--	5630	2390 J	1040 J	8030	NA	2500 J	2510 J	NA
Manganese	50	430	5.1 J	4.3 U	116	7610	NA	6.2 J	5.2 J	NA
Mercury	2	0.63	0.16 U	0.16 U	0.16 U	0.16 U	NA	0.16 U	0.16 U	NA
Nickel	--	390	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	MW-14M 128 On-site MW-14M-051513-128	MW-14S 73 On-site MW-14S-051513-73	MW-15S 55 On-site MW-15S-052013-55	MW-16S 43.5 On-site MW-16S-052013-43.5	MW-17 89 On-site MW-17-051413-89 460-56233-3 / 460-56074-18 05/20/2013	MW-18 45 On-site MW-18-051413-45 460-56074-10 05/14/2013	MW-19 57 On-site MW-19-051413-57
Potassium	--	--	732 J	525 U	586 J	1970 J	NA	728 J	702 J
Sodium	20000	--	9900	3340 J	4030 J	52000	NA	8080	8030
Zinc	5000	6000	5.8 U	5.8 U	5.8 U	8.8 J	NA	11.1 J	8.1 J
Alkalinity (mg/l)	--	--	NA	23.2	NA	NA	NA	10.6	11
Ammonia (mg/l)	--	--	NA	0.080 U	NA	NA	NA	0.080 U	0.080 U
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	23.2	NA	NA	NA	10.6	11
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	NA	1.7 U	NA	NA	NA	1.7 U	1.7 U
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	5.0 U	NA	NA	NA	5.0 U	5.0 U
Chemical Oxygen Demand (mg/l)	--	--	NA	8.7 U	NA	NA	NA	8.7 U	8.7 U
Chloride (mg/l)	250	--	NA	19	NA	NA	NA	24.5	24.5
Cyanide, Total (mg/l)	0.2	0.0015	0.0067 B	0.0060 B	0.0040 U	0.0040 U	NA	0.0040 U	0.0040 U
Dissolved Organic Carbon (mg/l)	--	--	NA	1.2 B	NA	NA	NA	0.69 B	0.80 B
Ethane	--	--	NA	0.49 U	NA	NA	NA	4.0 U	4.0 U
Ferric Iron (mg/l)	--	--	NA	0.10 UL	NA	NA	NA	0.023 UL	0.023 UL
Ferrous Iron (mg/l)	--	--	NA	0.023 UL	NA	NA	NA	0.023 UL	0.023 UL
Iron	300	14000	NA	73.6 U	NA	NA	NA	73.6 U	73.6 U
Methane	--	--	NA	0.22 U	NA	NA	NA	2.0 U	2.0 U
Nitrate as N (mg/l)	10	32	NA	0.3	NA	NA	NA	0.34 L	0.35 L
Nitrite as N (mg/l)	1	2	NA	0.028 J	NA	NA	NA	0.025 L	0.023 L
Orthophosphate as P (mg/l)	--	--	NA	0.023 J	NA	NA	NA	0.010 U	0.013 J
Phosphorus as P (mg/l)	--	--	NA	0.21	NA	NA	NA	0.13	0.21
Sulfate (mg/l)	250	--	NA	3.2 J	NA	NA	NA	7.5	6.8
Total Dissolved Solids (mg/l)	500	--	NA	98	NA	NA	NA	61	70
Total Kjeldahl Nitrogen (mg/l)	--	--	NA	0.15 U	NA	NA	NA	0.15 UL	0.15 UL
Total Organic Carbon (mg/l)	--	--	NA	1.2 B	NA	NA	NA	0.71 B	0.86 B
Total Suspended Solids (mg/l)	--	--	NA	10.0 U	NA	NA	NA	10.0 U	10.0 U
Dehalococcoides (CEQ/ml)	--	--	NA	< 1	NA	NA	NA	< 1	< 1

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	MD-01	RMW-01S-1	RMW-01S-2	RMW-02S-1	RMW-02S-2	RMW-04S-1	RMW-04S-2	RMW-04S-3
			52.5 On-site MD-01-051613-52.5	42 CertainTeed RMW-01S-1-052113- 42	110 CertainTeed RMW-01S-2-052113- 110	45.5 Bergen RMW-02S-1-051313- 45.5	65 Bergen RMW-02S-2-051313- 65	40 Oak Hill Rd RMW-04S-1-051013- 40	65 Oak Hill Rd RMW-04S-2-051013- 65	130 (Duplicate) Oak Hill Rd GW-RD1-Dup2
Lab Sample No.			460-56273-1	460-56505-4	460-56505-5	460-56003-4	460-56003-5	460-55866-9	460-55866-10	460-55767-1
Sampling Date			05/16/2013	05/21/2013	05/21/2013	05/13/2013	05/13/2013	05/10/2013	05/10/2013	05/09/2013
1,1,1-Trichloroethane	200	8000	0.30 U	13	1.8	0.060 U	1.1	0.060 U	0.060 U	0.060 U
1,1-Dichloroethane	--	2.7	0.65 U	33	0.91 J	0.35 J	0.20 J	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.45 U	2.5	0.090 U	0.16 J	0.42 J	0.090 U	0.090 U	0.090 U
1,2-Dichlorobenzene	600	300	1.1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	75	0.48	1.2 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone	--	5600	12 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2-Chloroethyl vinyl ether	--	--	20 UJ	2.3 J	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Acetone	--	14000	13 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.40 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.60 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.65 U	0.18 J	0.40 J	0.13 U	0.13 U	0.13 U	0.13 U	0.21 J
Carbon tetrachloride	5	0.45	0.30 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.53 J
Chlorobenzene	100	78	0.81 J	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.40 U	0.080 U	0.79 B	0.13 J	0.080 U	0.080 U	0.080 U	2.2
cis-1,2-Dichloroethene	70	36	2.4 J	0.18 U	0.95 J	0.40 J	0.23 J	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	1.1 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.62 J
Ethylbenzene	700	1.5	0.50 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	1.3 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.65 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethylene	5	11	1.7 J	0.10 U	0.10 U	0.10 U	0.22 J	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	0.75 U	1.1 B	2.3 B	0.24 J	0.77 J	0.29 J	0.46 J	0.84 J
Trichloroethylene	5	0.49	1300	0.090 U	58	11	70	28	13	4.1
Trichlorofluoromethane	--	1100	0.75 U	0.15 UJ	0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 U	1.7
Vinyl chloride	2	0.019	0.70 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.65 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	NA	70	3.3 L	2.5	1.8 J	0.31 U	0.31 U	0.31 U
Formaldehyde	--	0.43	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	70	1.1	0.54 J	0.19 U	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 U
Hexachloroethane	--	0.9	0.16 U	NA	NA	NA	NA	NA	NA	NA
Aluminum	50 to 200	20000	72.1 U	NA	NA	NA	NA	NA	NA	NA
Barium	2000	3800	107 J	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	9.2	0.82 U	NA	NA	NA	NA	NA	NA	NA
Calcium	--	--	13800	NA	NA	NA	NA	NA	NA	NA
Chromium	100	22000 / 0.035*	4.5 U	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	6	4.3 U	NA	NA	NA	NA	NA	NA	NA
Copper	1300	800	7.8 U	NA	NA	NA	NA	NA	NA	NA
Iron	300	14000	117 L	NA	NA	NA	NA	NA	NA	NA
Lead	15	15	4.0 U	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	--	3890 J	NA	NA	NA	NA	NA	NA	NA
Manganese	50	430	189	NA	NA	NA	NA	NA	NA	NA
Mercury	2	0.63	0.23	NA	NA	NA	NA	NA	NA	NA
Nickel	--	390	6.4 J	NA	NA	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	MD-01	RMW-01S-1	RMW-01S-2	RMW-02S-1	RMW-02S-2	RMW-04S-1	RMW-04S-2	RMW-04S-3	
Lab Sample No.			52.5 On-site MD-01-051613-52.5	42 CertainTeed RMW-01S-1-052113-42	110 CertainTeed RMW-01S-2-052113-110	45.5 Bergen RMW-02S-1-051313-45.5	65 Bergen RMW-02S-2-051313-65	40 Oak Hill Rd RMW-04S-1-051013-40	65 Oak Hill Rd RMW-04S-2-051013-65	130 Oak Hill Rd RMW-04S-3-050913-130	130 (Duplicate) Oak Hill Rd GW-RD1-Dup2
Sampling Date			460-56273-1 05/16/2013	460-56505-4 05/21/2013	460-56505-5 05/21/2013	460-56003-4 05/13/2013	460-56003-5 05/13/2013	460-55866-9 05/10/2013	460-55866-10 05/10/2013	460-55767-1 05/09/2013	460-55767-2 05/09/2013
Potassium	--	--	769 J	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	--	12600	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5000	6000	8.7 J	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity (mg/l)	--	--	32.1	215	69.8	193	8.1	13.7	14.7	67.3	70.1
Ammonia (mg/l)	--	--	0.080 U	0.2	0.080 U	6	0.12	0.086 J	0.11	0.16	0.19
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	32.1	215	69.8	193	8.1	13.7	14.7	67.3	62.3
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	2.2 L	5.4 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 J	1.7 J
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	7.9
Chemical Oxygen Demand (mg/l)	--	--	8.7 U	83.6	9.6 J	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U
Chloride (mg/l)	250	--	29	1090	68	141	22	27	32.5	22.5	22.5
Cyanide, Total (mg/l)	0.2	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Organic Carbon (mg/l)	--	--	1.2 B	3.3 B	1.3 B	2.1 B	0.67 B	0.71 B	0.73 B	1.7 B	1.9 B
Ethane	--	--	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Ferric Iron (mg/l)	--	--	0.12 L	1.7 L	2.7L	0.21 L	0.92 L	0.2 L	1.5 L	0.2 L	0.16 L
Ferrous Iron (mg/l)	--	--	0.023 UL	13.7 L	0.20 L	0.023 UL	0.023 UL	0.023 UL	0.023 UL	0.023 UL	0.023 UL
Iron	300	14000	117 L	15400 L	2940 L	209 L	923 L	200 L	1530 L	200 L	163 L
Methane	--	--	2.0 U	63	2.0 U	37	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrate as N (mg/l)	10	32	0.9 L	0.047 U	0.047 U	0.047 U	0.43	0.66	0.77	0.32	0.33
Nitrite as N (mg/l)	1	2	0.034 L	0.032 B	0.031 B	0.026 J	0.026 J	0.025 J	0.024 J	0.11	0.11
Orthophosphate as P (mg/l)	--	--	0.010 U	0.020 J	0.088	0.019 J	0.021 J	0.013 J	0.03	0.027 J	0.010 U
Phosphorus as P (mg/l)	--	--	0.29	0.038	0.17	0.034	0.016 U	20.1	8.2	6.5	8.4
Sulfate (mg/l)	250	--	10.5	53.5	6.1	12.6	4.5 J	5.9	5.1	6.7	6.8
Total Dissolved Solids (mg/l)	500	--	115	2350	178	345	59	50	87	132	152
Total Kjeldahl Nitrogen (mg/l)	--	--	0.15 U	0.27	0.16 J	4.5 L	0.15 UL	0.15 UL	0.15 UL	0.61 B	0.15 UJ
Total Organic Carbon (mg/l)	--	--	1.2 B	3.4 B	0.92 B	1.7 B	0.81 B	0.41 B	0.61 B	1.9 BL	1.3 BL
Total Suspended Solids (mg/l)	--	--	10.0 U	193	13	10.0 U	24	10.0 U	20	12	10.0 U
Dehalococcoides (CEQ/ml)	--	--	< 1	NA	NA	NA	< 1	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-05S	RMW-06S	RMW-07S	RMW-08S	RMW-09S-1	RMW-09S-2	RMW-10S	RMW-11S
Lab Sample No.			119 Oak Hill Rd RMW-05S-051013-119	150 HPG RMW-06S-051313-150	45 Marchem RMW-07S-050613-45	75 Fabri-Kal RMW-08S-050613-75	50 Church Rd RMW-09S-1-050813-50	64.5 Church Rd RMW-09S-2-050813-64.5	115 County Dev. RMW-10S-050913-115	65 Church Rd RMW-11S-050913-65
Sampling Date			460-55866-7 05/10/2013	460-56003-6 05/13/2013	460-55539-6 05/06/2013	460-55539-7 05/06/2013	460-55697-11 05/08/2013	460-55697-12 05/08/2013	460-55767-13 05/09/2013	460-55767-16 05/09/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	0.06 U	0.06 U	0.66 J	0.71 J	0.060 U	0.060 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.09 U	0.09 U	0.09 U	0.09 U	0.090 U	0.090 U
1,2-Dichlorobenzene	600	300	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	75	0.48	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone	--	5600	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2-Chloroethyl vinyl ether	--	--	20 UJ	20 UJ	20 UJ	20 UJ	R	20 UJ	20 UJ	20 UJ
Acetone	--	14000	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.080 U	0.080 U	0.08 U	0.08 U	0.08 U	0.08 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.06 U	0.71 J	0.06 U	0.06 U	0.060 U	0.060 U
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.080 U	0.080 U	0.32 J	0.22 J	0.08 U	0.08 U	0.17 J	0.20 J
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	1.6	0.22 U	0.22 U	0.93 J	0.22 U	1.1	3.4	0.22 U
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethylene	5	11	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.11 J	0.10 U	0.10 U
Toluene	1000	1100	1.5	0.82 J	0.59 J	1	0.32 J	2.1	1.9	0.69 J
Trichloroethylene	5	0.49	0.38 J	0.26 J	0.33 J	41	0.26 J	86	21	20
Trichlorofluoromethane	--	1100	1.8	0.15 U	0.18 J	5.4	0.15 U	5.6	4.8	1.2
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.36 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Formaldehyde	--	0.43	5.00 U	5.00 U	5 U	5 U	5 U	5 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	70	1.1	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
Hexachloroethane	--	0.9	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	50 to 200	20000	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2000	3800	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	9.2	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	22000 / 0.035*	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	6	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1300	800	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	14000	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	15	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	430	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	0.63	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	390	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-05S	RMW-06S	RMW-07S	RMW-08S	RMW-09S-1	RMW-09S-2	RMW-10S	RMW-11S
Lab Sample No.			119 Oak Hill Rd RMW-05S-051013-119	150 HPG RMW-06S-051313-150	45 Marchem RMW-07S-050613-45	75 Fabri-Kal RMW-08S-050613-75	50 Church Rd RMW-09S-1-050813-50	64.5 Church Rd RMW-09S-2-050813-64.5	115 County Dev. RMW-10S-050913-115	65 Church Rd RMW-11S-050913-65
Sampling Date			460-55866-7 05/10/2013	460-56003-6 05/13/2013	460-55539-6 05/06/2013	460-55539-7 05/06/2013	460-55697-11 05/08/2013	460-55697-12 05/08/2013	460-55767-13 05/09/2013	460-55767-16 05/09/2013
Potassium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	--	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5000	6000	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity (mg/l)	--	--	NA	99.9	NA	NA	23	16	NA	24.9
Ammonia (mg/l)	--	--	NA	0.12	NA	NA	0.16 B	0.08 U	NA	0.17
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	99.9	NA	NA	23	16	NA	24.9
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	NA	1.7 U	NA	NA	1.7 U	1.7 U	NA	1.7 U
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	5.0 U	NA	NA	5 U	5 U	NA	5.0 U
Chemical Oxygen Demand (mg/l)	--	--	NA	8.7 U	NA	NA	8.7 U	8.7 U	NA	8.7 U
Chloride (mg/l)	250	--	NA	25.5	NA	NA	22	17.5	NA	24
Cyanide, Total (mg/l)	0.2	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Organic Carbon (mg/l)	--	--	NA	1.3 B	NA	NA	0.67 B	0.74 B	NA	0.78 B
Ethane	--	--	NA	4.0 U	NA	NA	4 UL	4 UL	NA	4.0 U
Ferric Iron (mg/l)	--	--	NA	21.2 L	NA	NA	6.9	6.4	NA	1.2 L
Ferrous Iron (mg/l)	--	--	NA	0.18 B	NA	NA	0.023 UL	0.023 UL	NA	0.023 UL
Iron	300	14000	NA	21400 L	NA	NA	6860 L	6430 L	NA	1230 L
Methane	--	--	NA	2.0 U	NA	NA	2 UL	2 UL	NA	2.0 U
Nitrate as N (mg/l)	10	32	NA	0.73	NA	NA	0.57	0.27	NA	1.7
Nitrite as N (mg/l)	1	2	NA	0.036 J	NA	NA	0.02 J	0.032 J	NA	0.027 J
Orthophosphate as P (mg/l)	--	--	NA	0.020 U	NA	NA	0.01 U	0.01 U	NA	0.013 J
Phosphorus as P (mg/l)	--	--	NA	0.077	NA	NA	8	8.1	NA	7.6
Sulfate (mg/l)	250	--	NA	2.2 U	NA	NA	2.2 U	2.2 U	NA	8.8
Total Dissolved Solids (mg/l)	500	--	NA	130	NA	NA	58	54	NA	135
Total Kjeldahl Nitrogen (mg/l)	--	--	NA	0.59 L	NA	NA	0.15 U	0.15 U	NA	0.15 U
Total Organic Carbon (mg/l)	--	--	NA	0.59 B	NA	NA	0.38 B	0.33 B	NA	0.52 B
Total Suspended Solids (mg/l)	--	--	NA	4500	NA	NA	101	205	NA	28
Dehalococcoides (CEQ/ml)	--	--	NA	NA	NA	NA	NA	< 1	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-12S	RMW-13S-1	RMW-13S-2	RMW-14S	RMW-01D-1	RMW-01D-2	RMW-01D-3	RMW-02D
Lab Sample No.			35 South Mtn RMW-12S-050713-35	50 South Mtn RMW-13S-1-050813-50	125 South Mtn RMW-13S-2-050813-125	29 Church Rd RMW-14S-050713-29	138 - 153 CertainTeed RMW-01D-1-052113	200 - 215 CertainTeed RMW-01D-2-052113	298 - 318 CertainTeed RMW-01D-3-052113	173 Bergen RMW-02D-051413-173
Sampling Date			460-55539-9 05/07/2013	460-55697-5 05/08/2013	460-55697-10 05/08/2013	460-55539-12 05/07/2013	460-56505-6 05/21/2013	460-56505-7 05/21/2013	460-56505-8 05/21/2013	460-56074-16 05/14/2013
1,1,1-Trichloroethane	200	8000	0.06 U	0.47 J	0.39 J	0.06 U	0.74 J	0.060 U	0.060 U	0.060 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.09 U	0.09 U	0.09 U	0.09 U	0.31 J	0.090 U	0.090 U	0.090 U
1,2-Dichlorobenzene	600	300	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	75	0.48	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone	--	5600	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2-Chloroethyl vinyl ether	--	--	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Acetone	--	14000	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	R
Benzene	5	0.45	0.08 U	0.08 U	0.08 U	0.08 U	0.080 U	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.06 U	0.06 U	0.06 U	0.06 U	0.060 U	0.060 U	0.060 U	0.31 J
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.08 U	0.08 U	0.08 U	0.08 U	1.5	0.080 U	0.19 B	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.31 J	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	6.5	0.22 U	0.22 U	0.62 J	0.22 U	0.22 U
Ethylbenzene	700	1.5	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethylene	5	11	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	0.3 J	0.48 J	1.3	0.42 J	20	0.38 B	0.32 B	1.4
Trichloroethylene	5	0.49	7.1	0.09 U	44	0.12 J	99	12	2	8.4
Trichlorofluoromethane	--	1100	0.39 J	0.15 U	20	0.15 U	0.79 L	0.15 U	4.6	0.76 J
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.36 U	0.36 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.31 U	0.31 U	0.31 U	0.31 U	X	X	X	0.31 U
Formaldehyde	--	0.43	5 U	5 U	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	70	1.1	NA	NA	NA	NA	0.19 U	NA	NA	NA
Hexachloroethane	--	0.9	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	50 to 200	20000	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2000	3800	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	9.2	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	22000 / 0.035*	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	6	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1300	800	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	14000	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	15	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	430	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	0.63	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	390	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-12S	RMW-13S-1	RMW-13S-2	RMW-14S	RMW-01D-1	RMW-01D-2	RMW-01D-3	RMW-02D
Lab Sample No.			35 South Mtn RMW-12S-050713-35	50 South Mtn RMW-13S-1-050813-50	125 South Mtn RMW-13S-2-050813-125	29 Church Rd RMW-14S-050713-29	138 - 153 CertainTeed RMW-01D-1-052113	200 - 215 CertainTeed RMW-01D-2-052113	298 - 318 CertainTeed RMW-01D-3-052113	173 Bergen RMW-02D-051413-173
Sampling Date			460-55539-9 05/07/2013	460-55697-5 05/08/2013	460-55697-10 05/08/2013	460-55539-12 05/07/2013	460-56505-6 05/21/2013	460-56505-7 05/21/2013	460-56505-8 05/21/2013	460-56074-16 05/14/2013
Potassium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	--	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5000	6000	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity (mg/l)	--	--	22	NA	22.2	NA	73.5	NA	NA	59.3
Ammonia (mg/l)	--	--	0.085 B	NA	0.15 B	NA	0.080 U	NA	NA	0.080 U
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	22	NA	22.2	NA	73.5	NA	NA	59.3
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	1.7 U	NA	1.7 U	NA	1.7 U	NA	NA	1.7 U
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	5 U	NA	5 U	NA	5.0 U	NA	NA	5.0 U
Chemical Oxygen Demand (mg/l)	--	--	21.6	NA	8.7 U	NA	8.7 U	NA	NA	8.7 U
Chloride (mg/l)	250	--	28	NA	1 J	NA	19	NA	NA	23.5
Cyanide, Total (mg/l)	0.2	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Organic Carbon (mg/l)	--	--	0.74 B	NA	0.76 B	NA	1.9 B	NA	NA	0.60 B
Ethane	--	--	4 U	NA	4 UL	NA	4.0 U	NA	NA	4.0 U
Ferric Iron (mg/l)	--	--	0.32 L	NA	16.7 L	NA	0.10 UL	NA	NA	0.023 UL
Ferrous Iron (mg/l)	--	--	0.023 UL	NA	0.023 UL	NA	0.023 UL	NA	NA	0.094 B
Iron	300	14000	322 L	NA	16700 L	NA	73.6 UL	NA	NA	73.6 U
Methane	--	--	2 U	NA	2 UL	NA	2.0 U	NA	NA	2.0 U
Nitrate as N (mg/l)	10	32	0.71	NA	0.047 U	NA	0.2	NA	NA	0.53 L
Nitrite as N (mg/l)	1	2	0.02 J	NA	0.025 J	NA	0.044 B	NA	NA	0.025 L
Orthophosphate as P (mg/l)	--	--	0.02 J	NA	0.01 U	NA	0.010 U	NA	NA	0.010 J
Phosphorus as P (mg/l)	--	--	R	NA	3.6	NA	0.016 U	NA	NA	0.016 U
Sulfate (mg/l)	250	--	3.4 J	NA	2.8 J	NA	4.7 J	NA	NA	2.6 J
Total Dissolved Solids (mg/l)	500	--	93	NA	13	NA	73	NA	NA	113
Total Kjeldahl Nitrogen (mg/l)	--	--	0.15 U	NA	0.15 U	NA	0.29	NA	NA	0.15 UL
Total Organic Carbon (mg/l)	--	--	0.61 JB	NA	0.57 B	NA	2.3 B	NA	NA	0.38 B
Total Suspended Solids (mg/l)	--	--	10 U	NA	135	NA	10.0 U	NA	NA	10.0 U
Dehalococcoides (CEQ/ml)	--	--	NA	NA	NA	NA	< 1	NA	NA	< 1

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-03S	RMW-03D	RMW-06D-1	RMW-06D-2	RMW-06D-3	RMW-06D-4	RMW-06D-5	RMW-06D-6	
Lab Sample No.			92.6 CertainTeed RMW-03S-052113- 92.6	206 CertainTeed RMW-03D-052113- 206	155 - 165 HPG RMW-06D-1-051513	177 - 187 HPG RMW-06D-2-051513	190 - 200 HPG RMW-06D-3-051613	242 - 252 HPG RMW-06D-4-051513	259 - 269 HPG RMW-06D-5-051613	275 - 285 HPG RMW-06D-6-051613	
Sampling Date			460-56505-9 05/21/2013	460-56505-10 05/21/2013	460-56233-4 05/15/2013	460-56233-5 05/15/2013	460-56273-5 5/15/2013-5/16/13	460-56233-18 05/15/2013	460-56273-15 05/16/2013	460-56273-16 05/16/2013	460-56273-14 05/16/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	0.41 J	0.19 J	0.95 J	0.34 J	0.65 J	0.52 J	0.54 J
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.20 J	0.090 U	0.18 J	0.12 J	0.33 J	0.25 J	0.27 J
1,2-Dichlorobenzene	600	300	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	75	0.48	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone	--	5600	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2-Chloroethyl vinyl ether	--	--	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Acetone	--	14000	6.1	2.7 U	11 L	R	2.7 U	380 L	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.12 J	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.24 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.39 J	1	1	1
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	1 B	0.080 U	0.080 U	0.080 U	0.080 U	0.28 J	0.28 J	0.21 J	0.20 J
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.34 J	0.30 J	0.44 J	0.43 J	0.41 J
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethylene	5	11	0.10 U	0.10 U	0.10 U	0.11 J	0.21 J	0.11 J	0.14 J	0.17 J	0.21 J
Toluene	1000	1100	1.4 B	2.7 B	0.23 J	0.15 U	0.15 U	2.6	0.36 J	0.28 J	0.41 J
Trichloroethylene	5	0.49	0.090 U	0.090 U	57	26	140	62	110	100	99
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	3.4	7.6 J	6.6 J	6.7 J
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.31 U	0.31 U	X	X	X	X	X	X	X
Formaldehyde	--	0.43	7.65 B	5.00 U	5.00 U	5.00 U	5.00 U	5.20 B	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	70	1.1	NA	NA	NA	NA	0.19 U	NA	NA	NA	NA
Hexachloroethane	--	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	50 to 200	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2000	3800	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	9.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	22000 / 0.035*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1300	800	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	14000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	430	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	0.63	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	390	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-03S	RMW-03D	RMW-06D-1	RMW-06D-2	RMW-06D-3	RMW-06D-4	RMW-06D-5	RMW-06D-6	
Lab Sample No.			92.6 CertainTeed RMW-03S-052113- 92.6	206 CertainTeed RMW-03D-052113- 206	155 - 165 HPG RMW-06D-1-051513	177 - 187 HPG RMW-06D-2-051513	190 - 200 HPG RMW-06D-3-051613	242 - 252 HPG RMW-06D-4-051513	259 - 269 HPG RMW-06D-5-051613	275 - 285 HPG RMW-06D-6-051613	275 - 285 (Duplicate) HPG GW-RD1-Dup5
Sampling Date			460-56505-9 05/21/2013	460-56505-10 05/21/2013	460-56233-4 05/15/2013	460-56233-5 05/15/2013	460-56273-5 5/15/2013-5/16/13	460-56233-18 05/15/2013	460-56273-15 05/16/2013	460-56273-16 05/16/2013	460-56273-14 05/16/2013
Potassium	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5000	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity (mg/l)	--	--	NA	NA	NA	NA	28.4	NA	NA	NA	NA
Ammonia (mg/l)	--	--	NA	NA	NA	NA	0.087 K	NA	NA	NA	NA
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	28.4	NA	NA	NA	NA
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	1.7 UL	NA	NA	NA	NA
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA
Chemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	8.7 U	NA	NA	NA	NA
Chloride (mg/l)	250	--	NA	NA	NA	NA	19.5	NA	NA	NA	NA
Cyanide, Total (mg/l)	0.2	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	0.44 B	NA	NA	NA	NA
Ethane	--	--	NA	NA	NA	NA	4.0 U	NA	NA	NA	NA
Ferric Iron (mg/l)	--	--	NA	NA	NA	NA	0.10 UL	NA	NA	NA	NA
Ferrous Iron (mg/l)	--	--	NA	NA	NA	NA	0.023 UL	NA	NA	NA	NA
Iron	300	14000	NA	NA	NA	NA	92.1 J	NA	NA	NA	NA
Methane	--	--	NA	NA	NA	NA	2.0 U	NA	NA	NA	NA
Nitrate as N (mg/l)	10	32	NA	NA	NA	NA	0.31 L	NA	NA	NA	NA
Nitrite as N (mg/l)	1	2	NA	NA	NA	NA	0.028 L	NA	NA	NA	NA
Orthophosphate as P (mg/l)	--	--	NA	NA	NA	NA	0.012 L	NA	NA	NA	NA
Phosphorus as P (mg/l)	--	--	NA	NA	NA	NA	0.47	NA	NA	NA	NA
Sulfate (mg/l)	250	--	NA	NA	NA	NA	2.2 J	NA	NA	NA	NA
Total Dissolved Solids (mg/l)	500	--	NA	NA	NA	NA	99	NA	NA	NA	NA
Total Kjeldahl Nitrogen (mg/l)	--	--	NA	NA	NA	NA	0.15 U	NA	NA	NA	NA
Total Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	0.40 B	NA	NA	NA	NA
Total Suspended Solids (mg/l)	--	--	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA
Dehalococcoides (CEQ/ml)	--	--	NA	NA	NA	NA	< 1	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-06D-7	RMW-07D		RMW-08D	RMW-09D-1	RMW-09D-2	RMW-09D-3	RMW-09D-4
Lab Sample No.			309 - 319 HPG RMW-06D-7-051613	156 Marchem RMW-07D-050613-156	156 (Duplicate) Marchem GW-RD1-Dup-3-050613-150	135.5 Fabri-Kal RMW-08D-050613-135.5	95 - 105 Church Rd RMW-09D-1-050813	115 - 125 Church Rd RMW-09D-2-050813	146 - 156 Church Rd RMW-09D-3-050813	176 - 186 Church Rd RMW-09D-4-050913
Sampling Date			460-56273-17	460-55539-3	460-55539-5	460-55539-4	460-55697-7	460-55697-8	460-55767-14	460-55767-10
1,1,1-Trichloroethane	200	8000	0.45 J	0.06 U	0.06 U	0.06 U	0.75 J	0.43 J	0.060 U	0.060 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.14 J	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.090 U	0.090 U
1,2-Dichlorobenzene	600	300	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	75	0.48	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone	--	5600	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2-Chloroethyl vinyl ether	--	--	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Acetone	--	14000	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.080 U	0.08 U	0.08 U	0.08 U	0.08 U	0.17 J	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.72 J	0.06 U	0.06 U	0.45 J	0.06 U	0.06 U	0.060 U	0.11 J
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.79 J	0.27 J	0.28 J	0.42 J	0.23 J	2.3	0.40 J	0.25 J
cis-1,2-Dichloroethene	70	36	0.33 J	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	1.2	1.1	1	5.9	4.4	3.8	3.5
Ethylbenzene	700	1.5	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethylene	5	11	0.12 J	0.1 U	0.1 U	0.1 U	0.19 J	0.1 U	0.10 U	0.10 U
Toluene	1000	1100	1.4	1.9	2.4	1.4	0.19 J	20	0.66 J	0.71 J
Trichloroethylene	5	0.49	82	0.79 J	0.82 J	6.6	86	47	31	20
Trichlorofluoromethane	--	1100	5.2 J	2.4	2.3	3.1	15	9.2	8.5	7.7
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.36 U	0.36 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	X	0.31 U	0.31 U	0.31 U	X	X	X	X
Formaldehyde	--	0.43	5.00 U	5 U	5 U	5 U	5 U	5 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	70	1.1	NA	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
Hexachloroethane	--	0.9	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	50 to 200	20000	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2000	3800	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	9.2	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	22000 / 0.035*	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	6	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1300	800	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	14000	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	15	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	430	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	0.63	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	390	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-06D-7	RMW-07D		RMW-08D	RMW-09D-1	RMW-09D-2	RMW-09D-3	RMW-09D-4
Lab Sample No.			309 - 319 HPG RMW-06D-7-051613	156 Marchem RMW-07D-050613-156	156 (Duplicate) Marchem GW-RD1-Dup-3-050613-150	135.5 Fabri-Kal RMW-08D-050613-135.5	95 - 105 Church Rd RMW-09D-1-050813	115 - 125 Church Rd RMW-09D-2-050813	146 - 156 Church Rd RMW-09D-3-050813	176 - 186 Church Rd RMW-09D-4-050913
Sampling Date			460-56273-17 05/16/2013	460-55539-3 05/06/2013	460-55539-5 05/06/2013	460-55539-4 05/06/2013	460-55697-7 05/08/2013	460-55697-8 05/08/2013	460-55767-14 5/8/13-5/9/13	460-55767-10 05/09/2013
Potassium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	--	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5000	6000	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity (mg/l)	--	--	NA	NA	NA	NA	NA	NA	65	NA
Ammonia (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.080 U	NA
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	NA	NA	65	NA
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	NA	NA	1.7 U	NA
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	NA	NA	NA	NA	5.0 U	NA
Chemical Oxygen Demand (mg/l)	--	--	NA	NA	NA	NA	NA	NA	11.6	NA
Chloride (mg/l)	250	--	NA	NA	NA	NA	NA	NA	9.5	NA
Cyanide, Total (mg/l)	0.2	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.74 B	NA
Ethane	--	--	NA	NA	NA	NA	NA	NA	4.0 U	NA
Ferric Iron (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.023 UL	NA
Ferrous Iron (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.023 UL	NA
Iron	300	14000	NA	NA	NA	NA	NA	NA	73.6 UL	NA
Methane	--	--	NA	NA	NA	NA	NA	NA	2.0 U	NA
Nitrate as N (mg/l)	10	32	NA	NA	NA	NA	NA	NA	0.39	NA
Nitrite as N (mg/l)	1	2	NA	NA	NA	NA	NA	NA	0.030 J	NA
Orthophosphate as P (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.010 U	NA
Phosphorus as P (mg/l)	--	--	NA	NA	NA	NA	NA	NA	8.1	NA
Sulfate (mg/l)	250	--	NA	NA	NA	NA	NA	NA	2.5 J	NA
Total Dissolved Solids (mg/l)	500	--	NA	NA	NA	NA	NA	NA	109	NA
Total Kjeldahl Nitrogen (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.15 U	NA
Total Organic Carbon (mg/l)	--	--	NA	NA	NA	NA	NA	NA	0.44 B	NA
Total Suspended Solids (mg/l)	--	--	NA	NA	NA	NA	NA	NA	10.0 U	NA
Dehalococcoides (CEQ/ml)	--	--	NA	NA	NA	NA	NA	NA	< 1	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Location Depth (feet bgs) Placement Sample ID	Most Stringent EPA Groundwater RSL	RMW-09D-5	RMW-09D-6	RMW-10D	RMW-11D-1	RMW-11D-2	RMW-11D-3	RMW-12D	RMW-13D
Lab Sample No.	205 - 215 Church Rd RMW-09D-5-050913	235 - 245 Church Rd RMW-09D-6-050913	210 County Dev. RMW-10D-051013-210	90 - 100 Church Rd RMW-11D-1-051313 / RMW-11D-1-051413 460-56003-7 / 460-56233-16 5/13/13-5/15/13	117 - 127 Church Rd RMW-11D-2-051313	150 - 160 Church Rd RMW-11D-3-051313	72 South Mtn RMW-12D-050713-72	191 South Mtn RMW-13D-050713-191		
Sampling Date	460-55767-11 05/09/2013	460-55767-12 05/09/2013	460-55866-11 05/10/2013	460-56003-8 05/13/2013	460-56003-9 05/13/2013	460-55539-10 05/07/2013	460-55539-13 05/07/2013			
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	0.060 U	0.13 J	0.23 J	0.060 U	0.06 U	0.06 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.09 U	0.09 U
1,2-Dichlorobenzene	600	300	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	75	0.48	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone	--	5600	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	6.2
2-Chloroethyl vinyl ether	--	--	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Acetone	--	14000	11	36	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.41 J	0.20 J	0.080 U	0.080 U	0.080 U	0.54 J	0.08 U	0.18 J
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.18 J	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.06 U	0.06 U
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	3.2	0.60 J	0.080 U	0.35 J	0.82 J	4.6	0.08 U	0.08 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.87 J	0.54 J	0.22 U	0.39 J	0.72 J	0.47 J	0.22 U	0.61 J
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethylene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
Toluene	1000	1100	79	27	2.6	0.77 J	2.1	30	3	2.4
Trichloroethene	5	0.49	7.1	6.6	7.1	19	26	4.1	2.6	5.7
Trichlorofluoromethane	--	1100	2.4	1.1	3	1.3	2.8	1.1	0.49 J	2.1
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	X	X	0.31 U	X	X	X	0.31 U	0.31 U
Formaldehyde	--	0.43	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5 U	5 U
1,2,4-Trichlorobenzene	70	1.1	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	--	0.9	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	50 to 200	20000	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2000	3800	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	9.2	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	22000 / 0.035*	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	6	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1300	800	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	14000	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	15	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	430	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	0.63	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	390	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-09D-5	RMW-09D-6	RMW-10D	RMW-11D-1	RMW-11D-2	RMW-11D-3	RMW-12D	RMW-13D
Lab Sample No.			205 - 215 Church Rd RMW-09D-5-050913	235 - 245 Church Rd RMW-09D-6-050913	210 County Dev. RMW-10D-051013-210	90 - 100 Church Rd RMW-11D-1-051313 / RMW-11D-1-051413 460-56003-7 / 460-56233-16 5/13/13-5/15/13	117 - 127 Church Rd RMW-11D-2-051313	150 - 160 Church Rd RMW-11D-3-051313	72 South Mtn RMW-12D-050713-72	191 South Mtn RMW-13D-050713-191
Sampling Date			460-55767-11 05/09/2013	460-55767-12 05/09/2013	460-55866-11 05/10/2013		460-56003-8 05/13/2013	460-56003-9 05/13/2013	460-55539-10 05/07/2013	460-55539-13 05/07/2013
Potassium	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	--	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5000	6000	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity (mg/l)	--	--	NA	NA	120	NA	NA	NA	148	46.3
Ammonia (mg/l)	--	--	NA	NA	0.29	0.13	NA	NA	0.08 U	0.21 B
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	120	NA	NA	NA	148	37.2
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	NA	NA	1.7 U	1.7 U	NA	NA	1.7 U	1.7 U
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	5.0 U	NA	NA	NA	5 U	9.2
Chemical Oxygen Demand (mg/l)	--	--	NA	NA	8.7 U	8.7 U	NA	NA	8.7 U	13.6
Chloride (mg/l)	250	--	NA	NA	36.5	26.5	NA	NA	6	2.5 J
Cyanide, Total (mg/l)	0.2	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Organic Carbon (mg/l)	--	--	NA	NA	1.1 B	0.91 B	NA	NA	0.58 B	1.1 B
Ethane	--	--	NA	NA	4.0 U	0.54 L	NA	NA	4 U	4 U
Ferric Iron (mg/l)	--	--	NA	NA	17.4 L	46 L	NA	NA	0.55 L	NA
Ferrous Iron (mg/l)	--	--	NA	NA	0.023 UL	0.023 UL	NA	NA	0.23 L	NA
Iron	300	14000	NA	NA	17400 L	46000 L	NA	NA	775 L	NA
Methane	--	--	NA	NA	2.0 U	0.22 UL	NA	NA	2 U	2 U
Nitrate as N (mg/l)	10	32	NA	NA	0.047 U	2	NA	NA	0.23	0.24
Nitrite as N (mg/l)	1	2	NA	NA	0.034 J	0.027 J	NA	NA	0.0041 U	0.035 J
Orthophosphate as P (mg/l)	--	--	NA	NA	0.010 U	0.010 U	NA	NA	0.11	0.073
Phosphorus as P (mg/l)	--	--	NA	NA	8.6	0.016 U	NA	NA	0.12 L	0.095 L
Sulfate (mg/l)	250	--	NA	NA	7.5	13.7	NA	NA	8.3	25.9
Total Dissolved Solids (mg/l)	500	--	NA	NA	167	166	NA	NA	75	90
Total Kjeldahl Nitrogen (mg/l)	--	--	NA	NA	0.2 L	0.16 J	NA	NA	0.15 U	0.15 U
Total Organic Carbon (mg/l)	--	--	NA	NA	0.78 B	0.60 B	NA	NA	12.9 B	0.83 JB
Total Suspended Solids (mg/l)	--	--	NA	NA	37	10.0 U	NA	NA	30	71
Dehalococcoides (CEQ/ml)	--	--	NA	NA	NA	< 1	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-14D 61 Church Rd RMW-14D-050713-61	EB-01 110 On-site EB-01-052213-110	EB-03 128 On-site EB-03-051713-128	Property #14 Spring Property #14 Sample 1	Property #15 Spring Property #15 Sample 1	Property #15 Vault Property #15 Sample 2	Property #18 Spring Property #18 Sample 1
Lab Sample No. Sampling Date			460-55539-11 05/07/2013	460-56586-1 05/22/2013	460-56359-1 05/17/2013	460-56586-7 05/22/2013	460-56586-5 05/22/2013	460-56586-6 05/22/2013	460-56711-1 05/23/2013
1,1,1-Trichloroethane	200	8000	0.06 U	0.060 U	0.060 U	0.71 J	0.060 U	0.060 U	0.33 J
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.09 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
1,2-Dichlorobenzene	600	300	0.46 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	75	0.48	0.32 J	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone	--	5600	6.5	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2-Chloroethyl vinyl ether	--	--	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Acetone	--	14000	29	35	31J	2.7 U	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.21 J	0.080 U	0.23 J	0.080 U	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	1.1	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.06 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chlorobenzene	100	78	0.29 J	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.08 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Ethylbenzene	700	1.5	0.1 U	0.10 U	0.12 J	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.54 J	0.25 U	0.36 J	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.28 J	0.13 U	0.18 J	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethene	5	11	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	29	4	4.4	0.15 U	0.15 U	0.15 U	0.15 U
Trichloroethene	5	0.49	0.09 U	0.36 J	1.8	0.090 U	1.3	0.090 U	61
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	1.8 J
Vinyl chloride	2	0.019	0.14 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.83 J	0.13 U	0.55 J	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Formaldehyde	--	0.43	5 U	5.26 B	9.32 J	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	70	1.1	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Hexachloroethane	--	0.9	NA	0.15 U	0.15 U	NA	NA	NA	NA
Aluminum	50 to 200	20000	NA	1230	501 L	NA	NA	NA	NA
Barium	2000	3800	NA	389	627	NA	NA	NA	NA
Cadmium	5	9.2	NA	0.82 U	0.82 UL	NA	NA	NA	NA
Calcium	--	--	NA	728000	606000 L	NA	NA	NA	NA
Chromium	100	22000 / 0.035*	NA	19.9	8.0 L	NA	NA	NA	NA
Cobalt	--	6	NA	4.3 U	4.3 UL	NA	NA	NA	NA
Copper	1300	800	NA	8.3 J	7.8 UL	NA	NA	NA	NA
Iron	300	14000	NA	922	303 L	NA	NA	NA	NA
Lead	15	15	NA	4.0 UL	68.2 L	NA	NA	NA	NA
Magnesium	--	--	NA	336 J	321 UL	NA	NA	NA	NA
Manganese	50	430	NA	21	9.0 L	NA	NA	NA	NA
Mercury	2	0.63	NA	0.16 U	0.16 UL	NA	NA	NA	NA
Nickel	--	390	NA	7.6 J	7.8 JL	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-14D 61 Church Rd RMW-14D-050713-61	EB-01 110 On-site EB-01-052213-110	EB-03 128 On-site EB-03-051713-128	Property #14 Spring Property #14 Sample 1	Property #15 Spring Property #15 Sample 1	Property #15 Vault Property #15 Sample 2	Property #18 Spring Property #18 Sample 1
Lab Sample No. Sampling Date			460-55539-11 05/07/2013	460-56586-1 05/22/2013	460-56359-1 05/17/2013	460-56586-7 05/22/2013	460-56586-5 05/22/2013	460-56586-6 05/22/2013	460-56711-1 05/23/2013
Potassium	--	--	NA	293000	159000 L	NA	NA	NA	NA
Sodium	20000	--	NA	115000	117000 L	NA	NA	NA	NA
Zinc	5000	6000	NA	93.7	20.0 L	NA	NA	NA	NA
Alkalinity (mg/l)	--	--	NA	NA	5.0 U	NA	NA	NA	NA
Ammonia (mg/l)	--	--	NA	NA	0.080 U	NA	NA	NA	NA
Bicarbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	5.0 U	NA	NA	NA	NA
Carbonaceous Biochemical Oxygen Demand (mg/l)	--	--	NA	NA	1.7 UL	NA	NA	NA	NA
Carbonate Alkalinity as CaCO ₃ (mg/l)	--	--	NA	NA	5.0 U	NA	NA	NA	NA
Chemical Oxygen Demand (mg/l)	--	--	NA	NA	43.6	NA	NA	NA	NA
Chloride (mg/l)	250	--	NA	NA	32.5	NA	NA	NA	NA
Cyanide, Total (mg/l)	0.2	0.0015	NA	0.0040 U	NA	NA	NA	NA	NA
Dissolved Organic Carbon (mg/l)	--	--	NA	NA	12.1 B	NA	NA	NA	NA
Ethane	--	--	NA	NA	4.0 U	NA	NA	NA	NA
Ferric Iron (mg/l)	--	--	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron (mg/l)	--	--	NA	NA	0.17 L	NA	NA	NA	NA
Iron	300	14000	NA	NA	303 L	NA	NA	NA	NA
Methane	--	--	NA	NA	2.0 U	NA	NA	NA	NA
Nitrate as N (mg/l)	10	32	NA	NA	0.22	NA	NA	NA	NA
Nitrite as N (mg/l)	1	2	NA	NA	0.0041 U	NA	NA	NA	NA
Orthophosphate as P (mg/l)	--	--	NA	NA	0.016 L	NA	NA	NA	NA
Phosphorus as P (mg/l)	--	--	NA	NA	0.016 U	NA	NA	NA	NA
Sulfate (mg/l)	250	--	NA	NA	81.8	NA	NA	NA	NA
Total Dissolved Solids (mg/l)	500	--	NA	NA	1340	NA	NA	NA	NA
Total Kjeldahl Nitrogen (mg/l)	--	--	NA	NA	0.52	NA	NA	NA	NA
Total Organic Carbon (mg/l)	--	--	NA	NA	13	NA	NA	NA	NA
Total Suspended Solids (mg/l)	--	--	NA	NA	26	NA	NA	NA	NA
Dehalococcoides (CEQ/ml)	--	--	NA	NA	NA	NA	NA	NA	NA

TABLE 4-9I
Detected Constituents in Groundwater Samples - Round 1 (May 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Notes:

No pesticides, PCBs, or herbicides were detected during the sampling event.

The following wells were not sampled:

CH-1 (not enough water to purge and sample); CH-6 (dry)

All units in ug/L unless otherwise stated.

bgs - below ground surface; generally corresponds to pump intake depth

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

L - Reported value may be biased low

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

X - Not used; FLUTE well sampling methodology produced inconsistent results

* Both Cr[III] and Cr[IV] RSLs provided for chromium.

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	CH-7		CH-8	CH-10	EPA-2DR		EPA-3D	EPA-1D
			34.5 On-site CH-7-091313-34.5	34.5 (Duplicate) On-site GW-RD2-DUP2	33.5 On-site CH-8-091313-33.5	36.5 On-site CH-10-091613-36.5	114 CertainTeed EPA-2DR-09112013-114	114 (Duplicate) CertainTeed GW-RD2-DUP1	161 HPG EPA-3D-091913-161	169 Oak Hill Rd EPA-1D-091913-169
1,1,1-Trichloroethane	200	8000	0.06 U	0.060 U	0.060 U	0.060 J	0.66 J	0.70 J	0.060 U	0.060 U
1,1,2-Trichloroethane	5	0.28	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	2.8	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.09 U	0.090 U	0.090 U	0.090 U	0.32 J	0.32 J	0.090 U	0.090 U
1,2-Dichloroethane	5	0.17	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Acrolein	--	0.042	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U
Benzene	5	0.45	0.21 J	0.17 J	0.29 J	0.11 J	0.18 J	0.19 J	0.16 J	0.27 J
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.06 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chloroform	80	0.22	0.08 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.19 J	0.21 J	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 J
Ethylbenzene	700	1.5	0.23 J	0.26 J	0.34 J	0.12 J	0.18 J	0.14 J	0.14 J	0.28 J
m&p-Xylene	--	190	0.78 J	0.70 J	1.2 J	0.55 J	0.64 J	0.66 J	0.74 J	1.2 J
o-Xylene	--	190	0.45 J	0.33 J	0.66 J	0.35 J	0.34 J	0.34 J	0.42 J	0.70 J
Tetrachloroethene	5	11	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.13 J	0.10 U	0.10 U
Toluene	1000	1100	0.8 J	0.66 J	1.2	0.63 J	0.77 J	0.79 J	0.73 J	1.2
Trichloroethene	5	0.49	0.09 U	0.090 U	0.090 U	0.090 U	72	72	0.92 J	0.090 U
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	1.2 J	1.0 J	1.9 J	0.90 J	0.98 J	1.0 J	1.2 J	1.9 J
1,4-Dioxane	--	0.46	0.31 U	0.31 U	0.31 U	0.31 U	1.2 J	1.2 J	NA	NA

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	FWEC-4R 160 Oak Hill Rd FWEC-4R-091313-160	FWEC-5R 120 Oak Hill Rd FWEC-5R-09132013-120.3	FWEC-5S 38 Oak Hill Rd FWEC-5S-09132013-38	FWEC-6M 75.3 Church Rd FWEC-6M-091313-75.3	FWEC-6R 165 Church Rd FWEC-6R-091213-165	FWEC-6S 40.9 Church Rd FWEC-6S-091213-40.9	MW-1 50 On-site MW-1-091613-50	MW-2 50 On-site MW-2-091613-50
			460-63068-6 9/13/2013	460-63068-7 9/13/2013	460-63068-10 9/13/2013	460-63068-4 9/13/2013	460-63058-27 9/12/2013	460-63058-26 9/12/2013	460-63088-7 9/16/2013	460-63088-6 9/16/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	4.5 J
1,1,2-Trichloroethane	5	0.28	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.95 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1.1 J
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	1.4 J
1,2-Dichloroethane	5	0.17	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.95 U
Acrolein	--	0.042	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 UJ	6.6 UJ
Benzene	5	0.45	0.19 J	0.30 J	0.080 U	0.11 J	0.18 J	0.080 U	0.080 U	0.40 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.60 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.15 B	0.65 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.30 U
Chloroform	80	0.22	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.40 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	6
Dichlorodifluoromethane	--	200	1.6	2.6	0.87 J	0.22 U	0.22 U	0.22 U	0.22 U	1.1 U
Ethylbenzene	700	1.5	0.29 J	0.38 J	0.10 U	0.17 J	0.18 J	0.10 U	0.10 U	0.50 U
m&p-Xylene	--	190	1.1 J	1.5 J	0.54 J	0.51 J	0.92 J	0.25 U	0.25 U	1.3 U
o-Xylene	--	190	0.48 J	0.71 J	0.22 J	0.33 J	0.42 J	0.13 U	0.13 U	0.65 U
Tetrachloroethene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	3.2 J
Toluene	1000	1100	0.80 J	1.3	0.33 J	0.15 U	0.95 J	0.32 J	0.18 J	0.75 U
Trichloroethene	5	0.49	0.60 J	0.090 U	0.090 U	0.090 U	0.49 J	0.090 U	0.26 J	1600
Trichlorofluoromethane	--	1100	2.8	2.1	0.74 J	0.15 U	0.15 U	0.15 U	0.15 U	0.75 U
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.70 U
Xylenes, Total	10000	190	1.6 J	2.2 J	0.76 J	0.84 J	1.3 J	0.13 U	0.13 U	0.65 U
1,4-Dioxane	--	0.46	NA	NA	NA	NA	NA	NA	0.31 U	NA

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	MW-3	MW-4	MW-5	MW-6	MW-7	MW-7S	MW-8	MW-9
			50	55.5	287.5	68	63	47.5	70	55
			On-site	On-site	On-site	On-site	On-site	On-site	On-site	On-site
			MW-3-091713-50	MW-4-091713-55.5	MW-5-09172013-287.5	MW-6-091313-68	MW-7-091713-63	MW-7S-091613-47.5	MW-8-091913-70	MW-9-091713-55
			460-63354-5 9/17/2013	460-63354-10 9/17/2013	460-63354-4 9/17/2013	460-63068-11 9/13/2013	460-63354-2 9/17/2013	460-63088-10 9/16/2013	460-63420-4 9/19/2013	460-63354-11 9/17/2013
1,1,1-Trichloroethane	200	8000	0.92 J	1.1 J	0.19 J	0.060 U	49	380	0.060 U	0.060 U
1,1,2-Trichloroethane	5	0.28	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.34 J	0.19 U	0.19 U
1,1-Dichloroethane	--	2.7	0.28 J	1.3 U	0.13 U	0.13 U	4.5	29	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.13 J	0.90 U	0.090 U	0.090 U	9.5	56	0.090 U	0.090 U
1,2-Dichloroethane	5	0.17	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.21 J	0.19 U	0.19 U
Acrolein	--	0.042	1.3 U	13 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Benzene	5	0.45	0.080 U	0.80 U	0.22 J	0.31 J	0.080 U	0.13 J	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	1.2 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	1.3 U	0.13 U	0.13 U	0.13 U	0.26 B	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.60 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chloroform	80	0.22	0.080 U	0.80 U	0.080 U	0.080 U	0.16 J	0.25 J	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.47 J	3.8 J	0.18 U	0.18 U	3.1	10	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	2.2 U	0.22 U	0.22 U	2.7	1.3	0.22 U	0.22 U
Ethylbenzene	700	1.5	0.10 U	1.0 U	0.21 J	0.28 J	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.34 J	2.5 U	0.77 J	1.2 J	0.34 J	0.57 J	0.25 U	0.30 J
o-Xylene	--	190	0.14 J	1.3 U	0.42 J	0.73 J	0.16 J	0.24 J	0.13 U	0.15 J
Tetrachloroethene	5	11	0.75 J	2.8 J	0.10 U	0.10 U	6.7	15	0.10 U	0.10 U
Toluene	1000	1100	0.33 J	1.5 U	1.1	1.2	0.35 J	0.55 J	0.15 U	0.35 J
Trichloroethene	5	0.49	88	1600	39	0.97 J	110	62	0.33 J	0.090 U
Trichlorofluoromethane	--	1100	0.15 U	1.5 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Vinyl chloride	2	0.019	0.33 J	1.4 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.48 J	1.3 U	1.2 J	2.0 J	0.50 J	0.81 J	0.13 U	0.44 J
1,4-Dioxane	--	0.46	NA	0.31 U	NA	0.31 U	5.6	45 J	NA	NA

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date											
Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	MW-9D 151.5 MW-9D-091713-151.5	MW-10 65.5 On-site MW-10-091813-65.5	MW-10D 146.5 On-site MW-10D-091813-146.5	MW-11R 85 On-site MW-11R-091813-85	MW-12D 84 On-site MW-12D-091813-84	MW-12R 50 On-site MW-12R-091813-50	MW-13 340 On-site MW-13-09172013-340	MW-14D 189 On-site MW-14D-09182013-189	189 (Duplicate) On-site GW-RD2-DUP4
			460-63354-3 9/17/2013	460-63354-14 9/18/2013	460-63354-18 9/18/2013	460-63354-22 9/18/2013	460-63354-15 9/18/2013	460-63354-17 9/18/2013	460-63354-6 9/17/2013	460-63354-21 9/18/2013	460-63354-13 9/18/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.11 J	0.060 U	0.90 J	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
1,1,2-Trichloroethane	5	0.28	0.19 U	0.19 U							
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U							
1,1-Dichloroethene	7	280	0.090 U	0.090 U							
1,2-Dichloroethane	5	0.17	0.19 U	0.19 U							
Acrolein	--	0.042	1.3 U	1.3 U							
Benzene	5	0.45	0.45 J	0.080 U	0.21 J	0.080 U	0.080 U	0.080 U	0.24 J	0.080 U	0.16 J
Bromodichloromethane	80	0.13	0.12 U	0.12 U							
Carbon disulfide	--	810	0.13 U	0.13 U							
Carbon tetrachloride	5	0.45	0.060 U	0.060 U							
Chloroform	80	0.22	0.17 J	0.080 U	0.080 U						
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U							
Dichlorodifluoromethane	--	200	4.3	0.22 U	0.50 J	0.22 U	0.22 U				
Ethylbenzene	700	1.5	0.20 J	0.10 U	0.14 J	0.10 U	0.10 U	0.10 U	0.22 J	0.10 U	0.14 J
m&p-Xylene	--	190	1.0 J	0.50 J	1.2 J	0.25 U	0.25 U	0.30 J	0.89 J	0.60 J	0.66 J
o-Xylene	--	190	0.54 J	0.20 J	0.52 J	0.13 U	0.13 U	0.13 J	0.43 J	0.31 J	0.28 J
Tetrachloroethene	5	11	0.10 U	0.10 U							
Toluene	1000	1100	1.8	0.45 J	1.1	0.26 J	0.24 J	0.29 J	1.1	0.79 J	0.75 J
Trichloroethene	5	0.49	0.37 J	2.9	0.25 J	18	0.090 U	0.090 U	0.60 J	2.3	2.3
Trichlorofluoromethane	--	1100	4.8	0.26 J	0.89 J	0.15 U	0.22 J				
Vinyl chloride	2	0.019	0.14 U	0.14 U							
Xylenes, Total	10000	190	1.6 J	0.70 J	1.8 J	0.13 U	0.13 U	0.43 J	1.3 J	0.91 J	0.95 J
1,4-Dioxane	--	0.46	NA	NA							

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	MW-14M	MW-14S	MW-15S	MW-16S	MW-17	MW-18	MD-01	RMW-01S-1
			128	79	55.5	43.5	87	47	52.5	42
			On-site	On-site	On-site	On-site	On-site	On-site	On-site	CertainTeed
			MW-14M-091713-128	MW-14S-091713-73	MW-15S-091613-55.5	MW-16S-091613-43.5	MW-17-091813-87	MW-18-091813-47	MD-01-091713-52.5	RMW-01S-1-09112013-42
			460-63354-9 9/17/2013	460-63354-7 9/17/2013	460-63088-9 9/16/2013	460-63088-5 9/16/2013	460-63354-19 9/18/2013	460-63354-20 9/18/2013	460-63354-8 9/17/2013	460-63058-7 9/11/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.18 J	0.060 U	2.7	5.4	7.6	3.8 J	21
1,1,2-Trichloroethane	5	0.28	0.19 U	0.19 U	4.8 U	0.19 U				
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	6.3	0.46 J	0.56 J	3.3 U	41
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	6.6	1.1	1.6	2.3 U	4
1,2-Dichloroethane	5	0.17	0.19 U	0.19 U	4.8 U	0.19 U				
Acrolein	--	0.042	1.3 U	1.3 U	1.3 UJ	1.3 UJ	1.3 U	1.3 U	33 U	1.3 U
Benzene	5	0.45	0.12 J	0.14 J	0.080 U	0.19 J	0.080 U	0.080 U	2.0 U	0.12 J
Bromodichloromethane	80	0.13	0.12 U	0.12 U	3.0 U	0.12 U				
Carbon disulfide	--	810	0.13 U	0.13 U	3.3 U	0.13 U				
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	1.5 U	0.060 U				
Chloroform	80	0.22	0.080 U	0.080 U	2.0 U	0.080 U				
cis-1,2-Dichloroethene	70	36	0.18 U	0.36 J	0.18 U	2	0.39 J	0.43 J	5.7 J	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.63 J	0.22 U	0.22 U	0.33 J	0.22 U	5.5 U	0.22 U
Ethylbenzene	700	1.5	0.18 J	0.10 J	0.10 U	0.10 U	0.10 U	0.10 U	2.5 U	0.10 U
m&p-Xylene	--	190	0.70 J	0.51 J	0.25 U	0.25 U	0.75 J	0.25 U	6.3 U	0.45 J
o-Xylene	--	190	0.32 J	0.24 J	0.13 U	0.13 U	0.36 J	0.13 U	3.3 U	0.20 J
Tetrachloroethene	5	11	0.10 U	0.12 J	0.10 U	0.78 J	0.10 U	0.45 J	7.4 J	0.10 U
Toluene	1000	1100	0.57 J	0.63 J	0.24 J	0.15 U	0.89 J	0.26 J	3.8 U	0.46 J
Trichloroethene	5	0.49	4	65	0.090 U	2.3	77	84	4900	0.090 U
Trichlorofluoromethane	--	1100	0.21 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	3.8 U	0.15 U
Vinyl chloride	2	0.019	0.14 U	0.14 U	3.5 U	4.2				
Xylenes, Total	10000	190	1.0 J	0.75 J	0.13 U	0.13 U	1.1 J	0.13 U	3.3 U	0.65 J
1,4-Dioxane	--	0.46	NA	NA	NA	6.7	NA	1.5 J	0.31 U	74

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-01S-2	RMW-02S-1	RMW-02S-2	RMW-04S-1	RMW-04S-2	RMW-04S-3	RMW-05S	RMW-06S
			110 CertainTeed RMW-01S-2-09112013- 110	45.5 Bergen RMW-02S-1-091913- 45.5	65 Bergen RMW-02S-2-091913-65	40 Oak Hill Rd RMW-04S-1-091913-40	65 Oak Hill Rd RMW-04S-2-091913-65	130 Oak Hill Rd RMW-04S-3-091913-130	114 Oak Hill Rd RMW-05S-091313-114	115 HPG RMW-06S-091913-115
			460-63058-9 9/11/2013	460-63420-11 9/19/2013	460-63420-15 9/19/2013	460-63420-16 9/19/2013	460-63420-10 9/19/2013	460-63420-5 9/19/2013	460-63068-9 9/13/2013	460-63420-19 9/19/2013
1,1,1-Trichloroethane	200	8000	2.4	0.060 U	1.5	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
1,1,2-Trichloroethane	5	0.28	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	--	2.7	0.84 J	0.73 J	0.25 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.17 J	0.40 J	0.56 J	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
1,2-Dichloroethane	5	0.17	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Acrolein	--	0.042	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Benzene	5	0.45	0.080 U	0.14 J	0.12 J	0.080 U	0.080 U	0.16 J	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.88 J	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.21 J	0.060 U	0.060 U
Chloroform	80	0.22	0.70 J	0.080 U	0.080 U	0.080 U	0.080 U	2	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.70 J	0.81 J	0.27 J	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.56 J	1.1	0.22 U
Ethylbenzene	700	1.5	0.10 U	0.13 J	0.18 J	0.10 U	0.10 U	0.27 J	0.31 J	0.10 U
m&p-Xylene	--	190	0.25 U	0.72 J	0.74 J	0.25 U	0.46 J	1.1 J	1.0 J	0.25 U
o-Xylene	--	190	0.13 U	0.39 J	0.42 J	0.14 J	0.24 J	0.70 J	0.66 J	0.13 U
Tetrachloroethene	5	11	0.24 J	0.10 U	0.22 J	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	0.15 U	0.63 J	0.56 J	0.19 J	0.32 J	0.87 J	0.86 J	0.15 U
Trichloroethene	5	0.49	110	17	94	29	12	2.7	0.28 J	0.090 U
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	1.7	2	0.15 U
Vinyl chloride	2	0.019	0.14 U	0.29 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	1.1 J	1.2 J	0.14 J	0.70 J	1.8 J	1.7 J	0.13 U
1,4-Dioxane	--	0.46	3.1	5.2	1.9 J	NA	NA	NA	NA	0.31 U

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID	Location Depth (feet bgs) Placement Sample ID	Most Stringent EPA Groundwater RSL	RMW-07S	RMW-08S	RMW-09S-1	RMW-09S-2	RMW-10S	RMW-11S	RMW-12S	RMW-13S-1
Lab Sample No. Sampling Date	Drinking Water MCL		45 Marchem RMW-07S-09122013-45	75 Fabri-Kal RMW-08S-09122013-75	47.5 Church Rd RMW-09S-1-091213-47.5	64.5 Church Rd RMW-09S-2-091213-64.5	115 County Dev. RMW-10S-09122013-115	65 Church Rd RMW-11S-09102013-65	35 South Mtn RMW-12S-09102013-35	50 South Mtn RMW-13S-1-09102013-50
1,1,1-Trichloroethane	200	8000	0.060 U	0.20 J	0.67 J	0.59 J	0.16 J	0.060 U	0.060 U	0.060 U
1,1,2-Trichloroethane	5	0.28	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	0.24 J	0.090 U	0.090 U	0.090 U	0.090 U
1,2-Dichloroethane	5	0.17	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Acrolein	--	0.042	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	1.9	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chloroform	80	0.22	0.37 J	0.22 J	0.080 U	0.080 U	0.13 J	0.080 U	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.20 J	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	1.2	0.22 U	0.83 J	4	0.22 U	0.22 U	0.22 U
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.11 J	0.20 J	0.10 U	0.10 U
m&p-Xylene	--	190	0.31 J	0.25 U	0.26 J	0.27 J	0.50 J	0.80 J	0.74 J	0.74 J
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.16 J	0.23 J	0.40 J	0.36 J	0.36 J
Tetrachloroethene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	0.29 J	0.15 U	0.21 J	0.35 J	0.50 J	0.63 J	0.26 J	0.66 J
Trichloroethene	5	0.49	0.24 J	31	0.090 U	84	19	13	8.1	0.090 U
Trichlorofluoromethane	--	1100	0.26 J	6.2	0.20 J	5.3	5.5	0.15 U	0.15 U	0.15 U
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.31 J	0.13 U	0.26 J	0.42 J	0.73 J	1.2 J	0.13 U	1.1 J
1,4-Dioxane	--	0.46	NA	NA	0.31 U	0.31 U	0.31 U	NA	NA	NA

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-13S-2 125 South Mtn RMW-13S-2-09102013- 125	RMW-14S 29 Church Rd RMW-14S-09102013-29	RMW-01D-1 138 - 153 CertainTeed RMW-01D-1-09112013	RMW-01D-2 200 - 215 CertainTeed RMW-01D-2-09112013	RMW-01D-3 298 - 318 CertainTeed RMW-01D-3-09112013	RMW-02D 173 Bergen RMW-02D-091913-173	RMW-03S 92.5 CertainTeed RMW-03S-09112013- 92.5	RMW-03D 206.5 CertainTeed RMW-03D-09112013- 206.5
			460-62779-7 9/10/2013	460-62779-6 9/10/2013	460-63058-5 9/11/2013	460-63058-4 9/11/2013	460-63058-6 9/11/2013	460-63420-17 9/19/2013	460-63058-8 9/11/2013	460-63058-13 9/11/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	0.80 J	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
1,1,2-Trichloroethane	5	0.28	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.30 J	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
1,2-Dichloroethane	5	0.17	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Acrolein	--	0.042	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Benzene	5	0.45	0.27 J	0.080 U	0.16 J	0.080 U	0.080 U	0.12 J	0.092 J	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.27 J	0.060 U	0.060 U
Chloroform	80	0.22	0.080 U	0.080 U	2	0.080 U	0.14 J	0.080 U	0.26 J	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.29 J	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.62 J	0.49 J	3.3	0.46 J	0.22 U	0.22 U
Ethylbenzene	700	1.5	0.27 J	0.10 U	0.10 U	0.10 U	0.10 U	0.14 J	0.10 U	0.10 U
m&p-Xylene	--	190	1.4 J	0.25 U	0.25 U	0.25 U	0.25 U	1.0 J	0.25 U	0.25 U
o-Xylene	--	190	0.74 J	0.13 U	0.13 U	0.13 U	0.13 U	0.58 J	0.13 U	0.13 U
Tetrachloroethene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	1.3	0.18 J	17	0.22 J	1.5	0.52 J	0.16 J	0.15 U
Trichloroethene	5	0.49	34	0.090 U	100	11	1	6.7	0.090 U	0.090 U
Trichlorofluoromethane	--	1100	12	0.15 U	0.96 J	0.87 J	5.8 J	0.99 J	0.15 U	0.15 U
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	2.1 J	0.13 U	0.13 U	0.13 U	0.13 U	1.6 J	0.13 U	0.13 U
1,4-Dioxane	--	0.46	NA	NA	X	X	X	0.31 U	NA	NA

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-06D-1	RMW-06D-2	RMW-06D-3		RMW-06D-4	RMW-06D-5	RMW-06D-6	RMW-06D-7
			155 - 165 HPG RMW-06D-1-091913 460-63420-6 9/19/2013	177 - 187 HPG RMW-06D-2-091913 460-63420-7 9/19/2013	190 - 200 HPG RMW-06D-3-091913 460-63420-8 9/19/2013	190 - 200 (Duplicate) HPG GW-RD2-Dup5 460-63420-3 9/19/2013	242 - 252 HPG RMW-06D-4-091913 460-63420-9 9/19/2013	259 - 269 HPG RMW-06D-5-091913 460-63420-12 9/19/2013	275 - 285 HPG RMW-06D-6-091913 460-63420-13 9/19/2013	309 - 319 HPG RMW-06D-7-091913 460-63420-14 9/19/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.40 J	0.060 U	0.060 U
1,1,2-Trichloroethane	5	0.28	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.15 J	0.090 U	0.41 J	0.38 J	0.16 J	0.20 J	0.16 J	0.090 U
1,2-Dichloroethane	5	0.17	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Acrolein	--	0.042	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.57 J	0.68 J	0.82 J	0.47 J
Chloroform	80	0.22	0.080 U	0.080 U	0.080 U	0.080 U	0.29 J	0.29 J	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.29 J	0.33 J	0.30 J	0.33 J	0.26 J	0.24 J
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U	1.1	1.2	1.4	1
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethene	5	11	0.10 U	0.10 U	0.27 J	0.18 J	0.10 U	0.21 J	0.17 J	0.10 U
Toluene	1000	1100	0.15 U	0.15 U	0.15 U	0.15 U	0.17 J	0.15 J	0.20 J	0.66 J
Trichloroethene	5	0.49	54	21	130	130	86	87	71	65
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.15 U	0.15 U	5.9	7	7.1	5.4
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	X	X	X	X	X	X	X	X

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-07D	RMW-08D	RMW-09D-1	RMW-09D-2	RMW-09D-3	RMW-09D-4	RMW-09D-5	RMW-09D-6
			148.5 Marchem RMW-07D-09122013-	135.5 Fabri-Kal RMW-08D-09132013-	95 - 105 Church Rd RMW-09D-1-091213	115 - 125 Church Rd RMW-09D-2-091213	146 - 156 Church Rd RMW-09D-3-091213	176 - 186 Church Rd RMW-09D-4-091213	205 - 215 Church Rd RMW-09D-5-091213	235 - 245 Church Rd RMW-09D-6-091213
			148.5 148.5	135.5 135.5	460-63058-25 9/12/2013	460-63068-3 9/13/2013	460-63058-16 9/12/2013	460-63058-17 9/12/2013	460-63058-18 9/12/2013	460-63058-19 9/12/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	0.43 J	0.31 J	0.060 U	0.060 U	0.16 J	0.060 U
1,1,2-Trichloroethane	5	0.28	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.13 J	0.090 U				
1,2-Dichloroethane	5	0.17	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Acrolein	--	0.042	1.3 U	1.3 U	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	3.0 J	130 J
Benzene	5	0.45	0.65 J	0.20 J	0.080 U	0.11 J	0.080 U	0.080 U	0.34 J	0.11 J
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.44 J	1.6	0.060 U				
Chloroform	80	0.22	0.29 J	0.39 J	0.10 J	0.45 J	0.080 U	0.080 U	0.56 J	0.17 J
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.64 J	1.1	3.4	3.9	5.4	5.6	4.9	0.33 J
Ethylbenzene	700	1.5	0.29 J	0.30 J	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	1.4 J	1.3 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.75 J	0.53 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	2.3	0.88 J	0.19 J	10	0.79 J	0.47 J	48	16
Trichloroethene	5	0.49	0.29 J	7.3	60	35	21	15	11	2.2
Trichlorofluoromethane	--	1100	1	3.7	12 J	8.2 J	10 J	9.6 J	8.8	0.39 J
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	2.1 J	1.8 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	NA	NA	X	X	X	X	X	X

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-10D	RMW-11D-1	RMW-11D-2	RMW-11D-3	RMW-12D	RMW-13D	RMW-14D
			210 County Dev. RMW-10D-09162013- 210	210 (Duplicate) County Dev. GW-RD2-DUP3	90 - 100 Church Rd RMW-11D-1-09112013	117 - 127 Church Rd RMW-11D-2-09112013	150 - 160 Church Rd RMW-11D-3-09112013	72 South Mtn RMW-12D-09102013-72	190.5 South Mtn RMW-13D-09162013- 190.5
			460-63088-11 9/16/2013	460-63088-3 9/16/2013	460-63058-10 9/11/2013	460-63058-11 9/11/2013	460-63058-12 9/11/2013	460-62779-8 9/10/2013	460-63088-8 9/16/2013
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	0.29 J	0.29 J	0.060 U	0.060 U	0.060 U
1,1,2-Trichloroethane	5	0.28	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
1,2-Dichloroethane	5	0.17	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Acrolein	--	0.042	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U	0.37 J	0.080 U	0.20 J
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	2.5	2.1	0.13 U	0.13 U	0.13 U	0.18 B	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chloroform	80	0.22	0.080 U	0.13 J	0.36 J	0.84 J	3.3	0.080 U	0.20 J
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	3.2	1	0.94 J	1	0.44 J	0.22 U	0.36 J
Ethylbenzene	700	1.5	0.15 J	0.10 U	0.10 U	0.10 U	0.10 U	0.11 J	0.53 J
m&p-Xylene	--	190	0.70 J	0.46 J	0.25 U	0.25 U	0.25 U	0.59 J	0.44 J
o-Xylene	--	190	0.28 J	0.24 J	0.13 U	0.13 U	0.13 U	0.28 J	0.21 J
Tetrachloroethene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	0.56 J	0.55 J	0.15 U	0.36 J	19	0.45 J	0.65 J
Trichloroethene	5	0.49	5	3.9	37	31	7.6	2	2.4
Trichlorofluoromethane	--	1100	3.9	2.3 J	5.5 J	5.2	1.7	0.15 U	1
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.99 J	0.70 J	0.13 U	0.13 U	0.13 U	0.87 J	0.65 J
1,4-Dioxane	--	0.46	0.31 U	NA	X	X	X	NA	NA

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	EB-01	EB-03	Property #14	Property #18	Property #42 φ
			172.5 On-site EB-01-09182013-172.5	128 On-site EB-03-091813-128	Spring Property #14 Sample 1	Spring Property #18 Sample 1	Spring Property #42 Sample 1
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	0.54 J	0.21 J	0.060 U
1,1,2-Trichloroethane	5	0.28	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
1,2-Dichloroethane	5	0.17	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Acrolein	--	0.042	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Benzene	5	0.45	0.22 J	0.43 J	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.26 J
Carbon disulfide	--	810	0.20 J	0.62 J	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chloroform	80	0.22	0.080 U	0.080 U	0.080 U	0.085 J	3.5
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U	0.53 J
Ethylbenzene	700	1.5	0.15 J	0.25 J	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.60 J	1.2 J	0.25 U	0.25 U	0.25 U
o-Xylene	--	190	0.27 J	0.61 J	0.13 U	0.13 U	0.13 U
Tetrachloroethene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	2.5	3.4	0.15 U	0.15 U	0.15 U
Trichloroethene	5	0.49	0.37 J	1.7	0.16 J	48	9
Trichlorofluoromethane	--	1100	0.17 J	0.15 U	0.15 U	0.88 J	2.6
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.87 J	1.8 J	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	NA	NA	NA	NA	0.31 U

TABLE 4-9J
Detected Constituents in Groundwater Samples - Round 2 (September 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Notes:

◊ Sample also analyzed for Select SVOCs; no constituents detected.

All units in ug/L unless otherwise stated.

bgs - below ground surface; generally corresponds to pump intake depth

B - Reported value may be wholly or partially due to contamination in an associated blank sample

J - Estimated

L - Reported value may be biased low

NA - Not analyzed

R - Rejected (unusable)

U - Not detected at Method Detection Limit (MDL) provided

X - Not used; FLUTE well sampling methodology produced inconsistent results

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9K
Detected Constituents in Groundwater and Seep Samples - Supplemental (October 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs)	Drinking Water MCL	Most Stringent EPA Groundwater RSL	Property #1	Property #15	Property #15	Property #15		Property #15	Property #27
			External Spigot	Spring Structure	Spring	Spring House - Before Treatment	Spring House - Before Treatment	Spring House - After Treatment	Well
Placement Sample ID	Property #15 Sample 1 460-65454-2 10/23/13	Property #15 Sample 1 460-65454-3 10/23/13	Property #15 Sample 2 460-65454-4 10/23/13	Property #15 Sample 3 460-64831-2 10/14/13	Property #15 Sample 3 (Duplicate) 460-64831-3 10/14/13	Property #15 Sample 4 460-64831-4 10/14/13	Property #27 Sample 1 460-65454-5 10/23/13		
1,2-Dichloroethane	5	0.17	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Acetone	--	14000	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	5	0.45	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Bromodichloromethane	80	0.13	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Chloroform	80	0.22	0.17 U	0.17 U	0.17 U	0.08 U	0.08 U	0.08 U	0.17 U
Dichlorodifluoromethane	--	200	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Toluene	1000	1100	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Trichloroethene	5	0.49	0.14 U	0.14 U	0.55 J	5.3	5.3	0.82 J	0.14 U
Trichlorofluoromethane	--	1100	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Notes:

All units in ug/L.

B - The reported value may be wholly or partially due to contamination in an associated blank

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9K
Detected Constituents in Groundwater and Seep Samples - Supplemental (October 2013)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Drinking Water MCL	Most Stringent EPA Groundwater RSL	Property #38	Property #39	Property #42		Property #43	Property #48
Depth (feet bgs)			External Spigot	Well	Spring House	Spring House	Basement Sink	External Spigot
Placement Sample ID			Property #38 Sample 1 460-65454-6 10/23/13	Property #39 Sample 1 460-65454-7 10/23/13	Property #42 Sample 1 460-65454-8 10/23/13	Property #42 Sample 1 (Duplicate) 460-65454-9 10/23/13	Property #43 Sample 1 460-65454-11 10/23/13	Property #48 Sample 1 460-65454-10 10/23/13
Lab Sample No. Sampling Date								
1,2-Dichloroethane	5	0.17	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	9.1
Acetone	--	14000	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	5	0.45	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.12 J
Bromodichloromethane	80	0.13	0.13 U	0.13 U	0.13 U	0.32 J	0.13 U	0.13 U
Chloroform	80	0.22	0.40 B	0.17 U	3.5 B	3.6 B	5.8 B	0.28 B
Dichlorodifluoromethane	--	200	0.19 U	0.19 U	0.58 J	0.55 J	0.19 U	0.19 U
Toluene	1000	1100	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 J
Trichloroethene	5	0.49	0.14 U	0.14 U	9.6	9.2	0.14 U	0.14 U
Trichlorofluoromethane	--	1100	0.20 U	0.20 U	2.6	2.6	0.20 U	0.20 U

Notes:

All units in ug/L.

B - The reported value may be wholly or partially due to contamination in an associated blank

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- - No criteria

Peach shading and bold denotes value greater than EPA

Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9L
Detected Constituents in Groundwater Samples - Round 3 (April 2014)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	CH-1	CH-6	EPA-2DR	MW-7	MW-7S	MW-16S	MW-18	
			40 On-site CH-1 460-74286-11 04/10/2014	41.5 On-site CH-6 460-74190-11 04/08/2014	114 CertainTeed EPA-2DR 460-74190-5 04/08/2014	63 On-site MW-7 460-74286-15 04/11/2014	47.5 On-site MW-7S 460-74286-14 04/11/2014	47 On-site MW-16S 460-74286-16 04/11/2014	47 On-site MW-18 460-74190-12 04/08/2014	47 (Duplicate) On-site GW-RD3-DUP2 460-74190-10 04/08/2014
1,1,1-Trichloroethane	200	8000	0.060 U	0.060 U	0.67 J	0.060 U	260	1.2	6.9	7.4
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	20	3.9	0.56 J	0.49 J
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.33 J	0.090 U	49	5.2	1.6	1.5
Acetone	--	14000	2.7 U	2.7 U	26	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.16 J	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	1.1	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.080 U	0.080 U	0.080 U	0.080 U	0.27 J	0.080 U	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.26 J	0.49 J	6.6	1.7	0.69 J	0.69 J
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	0.22 U	3.2	0.22 U	0.23 J	0.27 J
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Methylene Chloride	5	11.4	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	16	0.67 J	1	0.89 J
Toluene	1000	1100	0.15 U	0.15 U	0.27 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Trichloroethene	5	0.49	1.3	2.9	81	36	92	1.7	120	120
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.22 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.50 U	0.50 U	0.72 J	0.74 J	34	7.2	1.5	1.3

TABLE 4-9L
Detected Constituents in Groundwater Samples - Round 3 (April 2014)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-01S-1	RMW-01S-2	RMW-02S-1	RMW-02S-2	RMW-04S-1	RMW-04S-2	RMW-04S-3	RMW-06S
			~42	110	45.5	65	40	65	130	115
			CertainTeed	CertainTeed	Bergen	Bergen	Oak Hill Rd	Oak Hill Rd	Oak Hill Rd	HPG
			RMW-01S-1	RMW-01S-2	RMW-02S-1	RMW-02S-2	RMW-04S-1	RMW-04S-2	RMW-04S-3	RMW-06S
			460-74190-6	460-74197-5	460-74286-6	460-74286-7	460-74186-14	460-74186-15	460-74186-16	460-74190-13
			04/08/2014	04/09/2014	04/10/2014	04/10/2014	04/07/2014	04/07/2014	04/07/2014	04/08/2014
1,1,1-Trichloroethane	200	8000	21	0.060 U	0.060 U	2	0.50 J	0.060 U	0.060 U	0.060 U
1,1-Dichloroethane	--	2.7	36	0.13 U	0.13 U	0.13 U	0.15 J	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	4.6	0.54 J	0.090 U	0.81 J	0.090 U	0.090 U	0.090 U	0.090 U
Acetone	--	14000	2.7 U	2.7 U	2.7 U	2.7 U				
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U				
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U				
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U				
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.66 J	0.060 U				
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U				
Chloroform	80	0.22	0.080 U	0.19 J	0.080 U	0.080 U	0.080 U	0.080 U	0.19 B	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.45 J	0.61 J	0.18 U	0.19 J	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.66 J	0.22 U				
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U				
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U				
Methylene Chloride	5	11.4	0.18 U	0.18 U	0.18 U	0.18 U				
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U				
Tetrachloroethene	5	11	0.10 U	0.13 J	0.10 U	0.10 U	0.14 J	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	0.15 U	0.17 J	0.15 U	0.15 U	0.15 U	0.15 U	0.21 J	0.31 J
Trichloroethene	5	0.49	0.29 J	110	16	130	30	14	5.4	0.090 U
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	2.1	0.15 U				
Vinyl chloride	2	0.019	3.8	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U				
1,4-Dioxane	--	0.46	88	1.8	3.4	2.3	1.6	0.52 J	0.50 U	0.50 U

TABLE 4-9L
Detected Constituents in Groundwater Samples - Round 3 (April 2014)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-09S-1	RMW-09S-2	RMW-11S	RMW-01D-1	RMW-01D-2	RMW-01D-3	RMW-02D	RMW-06D-1
Depth (feet bgs)			47 Church Rd RMW-09S-1 460-74197-9 04/09/2014	64 Church Rd RMW-09S-2 460-74197-10 04/09/2014	65 Church Rd RMW-11S 460-74197-11 04/09/2014	138 - 153 CertainTeed RMW-01D-1 460-74190-7 04/08/2014	200 - 215 CertainTeed RMW-01D-2 460-74190-8 04/08/2014	298 - 318 CertainTeed RMW-01D-3 460-74190-9 04/08/2014	173 Bergen RMW-02D 460-74286-5 04/10/2014	155 - 165 HPG RMW-06D-1 460-74186-6 04/07/2014
1,1,1-Trichloroethane	200	8000	0.71 J	0.61 J	0.14 J	2.4	0.16 J	0.060 U	0.060 U	0.27 J
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.31 J	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	1.2	0.090 U	0.090 U	0.090 U	0.090 U
Acetone	--	14000	2.7 U	2.7 U	6.4 B	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.13 J	0.080 U	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.34 J	0.060 U
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.080 U	0.080 U	0.39 J	0.42 J	0.080 U	0.11 J	0.080 U	0.080 U
cis-1,2-Dichloroethene	70	36	0.22 J	0.18 J	0.18 U	0.97 J	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	0.73 J	0.90 J	0.22 U	0.39 J	0.42 J	2.6	2.8	0.22 U
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Methylene Chloride	5	11.4	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethene	5	11	0.17 J	0.10 U	0.10 U	0.39 J	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	0.15 J	0.16 J	0.15 U	1.9	0.15 U	0.15 U	0.25 J	0.15 U
Trichloroethene	5	0.49	110	83	17	310	13	1.9	7.7	33
Trichlorofluoromethane	--	1100	5.4	4.7	0.15 U	0.52 J	0.75 J	4.6	0.87 J	0.15 U
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.51 J	0.61 J	0.50 U	2	0.50 U	0.50 U	0.50 U	0.50 U

TABLE 4-9L
Detected Constituents in Groundwater Samples - Round 3 (April 2014)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-06D-2	RMW-06D-3		RMW-06D-4	RMW-06D-5	RMW-06D-6	RMW-06D-7	RMW-09D-1
			177 - 187 HPG RMW-06D-2 460-74186-7 04/07/2014	190 - 200 HPG RMW-06D-3 460-74186-8 04/07/2014	190 - 200 (Duplicate) HPG GW-RD3-DUP 460-74186-13 04/07/2014	242 - 252 HPG RMW-06D-4 460-74186-9 04/07/2014	259 - 269 HPG RMW-06D-5 460-74186-10 04/07/2014	275 - 285 HPG RMW-06D-6 460-74186-11 04/07/2014	309 - 319 HPG RMW-06D-7 460-74186-12 04/07/2014	95 - 105 Church Rd RMW-09D-1 460-74197-6 04/09/2014
1,1,1-Trichloroethane	200	8000	0.17 J	0.41 J	0.40 J	0.47 J	0.46 J	0.52 J	0.32 J	0.55 J
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.25 J	0.090 U	0.28 J	0.31 J	0.29 J	0.090 U	0.090 U
Acetone	--	14000	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.060 U	0.060 U	0.70 J	0.75 J	0.98 J	0.75 J	0.42 J
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.080 U	0.080 U	0.080 U	0.21 B	0.19 B	0.18 B	0.30 B	0.080 U
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.36 J	0.39 J	0.42 J	0.27 J	0.18 U
Dichlorodifluoromethane	--	200	0.22 U	0.22 U	0.22 U	1.2	1.1	1.4	1.4	3.9 J
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 UL	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Methylene Chloride	5	11.4	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
o-Xylene	--	190	0.13 UL	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethene	5	11	0.10 U	0.18 J	0.10 U	0.22 J	0.10 U	0.29 J	0.17 J	0.10 U
Toluene	1000	1100	0.15 U	0.15 U	0.15 U	0.15 U	0.26 J	0.15 U	0.47 J	0.15 U
Trichloroethene	5	0.49	21	63	64	85	90	110	58	68
Trichlorofluoromethane	--	1100	0.15 U	0.15 U	0.15 U	5.4	5.5	5.9	8	0.15 U
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.50 U	0.50 U	0.50 U	0.55 J	0.52 J	0.50 U	0.50 U	0.50 U

TABLE 4-9L
Detected Constituents in Groundwater Samples - Round 3 (April 2014)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-09D-2	RMW-09D-3	RMW-09D-4	RMW-09D-5	RMW-09D-6	RMW-11D-1	RMW-11D-2	RMW-11D-3
			115 - 125	146 - 156	176 - 186	205 - 215	235 - 245	90 - 100	117 - 127	150 - 160
			Church Rd	Church Rd	Church Rd	Church Rd	Church Rd	Church Rd	Church Rd	Church Rd
			RMW-09D-2	RMW-09D-3	RMW-09D-4	RMW-09D-5	RMW-09D-6	RMW-11D-1	RMW-11D-2	RMW-11D-3
			460-74197-7	460-74197-8	460-74197-12	460-74197-13	460-74286-10	460-74286-8	460-74286-9	460-74286-12
			04/09/2014	04/09/2014	04/09/2014	04/09/2014	04/10/2014	04/10/2014	04/10/2014	04/10/2014
1,1,1-Trichloroethane	200	8000	0.060 U	0.21 J	0.18 J	0.19 J	0.060 U	0.23 J	0.26 J	0.060 U
1,1-Dichloroethane	--	2.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethene	7	280	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Acetone	--	14000	6.2 B	2.7 U	30 B	8.3 B	2.7 U	2.7 U	2.7 U	2.7 U
Benzene	5	0.45	0.080 U	0.080 U	0.080 U	0.26 J	0.37 J	0.080 U	0.080 U	0.25 J
Bromodichloromethane	80	0.13	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Carbon disulfide	--	810	0.13 U	0.13 U	0.13 U	0.13 U	0.87 B	0.13 U	0.13 U	0.13 U
Carbon tetrachloride	5	0.45	0.060 U	0.13 J	0.13 J	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Chlorobenzene	100	78	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroform	80	0.22	0.17 J	0.12 J	0.089 J	0.23 J	0.15 J	0.45 J	0.66 J	1.5
cis-1,2-Dichloroethene	70	36	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dichlorodifluoromethane	--	200	4.5 J	5.5 J	6.3 J	7.0 J	15	3.3	4.1	0.22 U
Ethylbenzene	700	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	--	190	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Methylene Chloride	5	11.4	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.78 J
o-Xylene	--	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethene	5	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1000	1100	9.4	1.6	0.59 J	30	42	0.15 U	0.16 J	1.4
Trichloroethene	5	0.49	41	18	13	15	19	33	34	14
Trichlorofluoromethane	--	1100	8.8	8.8	0.15 U	9.1	5.3	0.15 U	4.3	1.7
Vinyl chloride	2	0.019	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Xylenes, Total	10000	190	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,4-Dioxane	--	0.46	0.50 J	0.50 U	0.50 U	0.85 J	0.68 J	0.50 U	0.50 U	0.57 J

TABLE 4-9L
Detected Constituents in Groundwater Samples - Round 3 (April 2014)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Notes:

All units in ug/L unless otherwise stated.

bgs - below ground surface; generally corresponds to pump intake depth

B - The reported value may be wholly or partially due to contamination in an associated blank

J - Estimated

NA - Not analyzed

U - Not detected at Method Detection Limit (MDL) provided

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9M
Detected Constituents in Groundwater Samples from RMW-09S (October 2014)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Depth (feet bgs) Placement Sample ID Lab Sample No. Sampling Date	Drinking Water MCL	Most Stringent EPA Groundwater RSL	RMW-09S-1	RMW-09S-2
			50 Church Rd RMW-09S1-10132014 460-84429-4 10/13/2014 13:20:00	65 Church Rd RMW-09S2-10132014 460-84429-3 10/13/2014 11:45:00
1,1,1-Trichloroethane	200	8000	0.69 J	0.53 J
1,1-Dichloroethene	7	280	0.090 U	0.28 J
Carbon tetrachloride	5	0.45	0.060 U	0.14 J
Chloroform	80	0.22	0.080 U	0.10 J
cis-1,2-Dichloroethene	70	36	0.18 U	0.19 J
Tetrachloroethene	5	11	0.10 U	0.16 J
Trichloroethene	5	0.49	0.27 J	81
Trichlorofluoromethane	--	1100	0.15 U	5.2

Notes:

All units in ug/L.

bgs - below ground surface; generally corresponds to pump intake depth

J - Estimated

U - Not detected at Method Detection Limit (MDL) provided

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 4-9N
Chromium/Hexavalent Chromium Constituents in Groundwater Samples from EB-01 (April 2016)
Mountain Top RI/FS
Mountain Top, Pennsylvania

Location Placement Sample ID	Drinking Water MCL	Most Stringent EPA Groundwater RSL	EB-01	EB-01 Duplicate
Lab Sample No.			On-site EB-01-C- GWMW041316-110 1616031-20/ 1616031-21 04/13/2016	On-site DUP 1-041316 GW 1616031-22/ 1616031-23 04/13/2016
Sampling Date				
Chromium	100 (total)	22000	R	R
Chromium (Dissolved)	100 (total)	22000	R	R
Hexavalent Chromium	100 (total)	0.035	R	R

Notes:

All units in ug/L.

R - Rejected (unusable)

-- - No criteria

Peach shading and bold denotes value greater than EPA Maximum Contaminant Level (MCL).

Yellow shading and bold denotes value greater than most stringent EPA Regional Screening Level (RSL).

Purple shading and bold denotes value greater than both EPA MCL and most stringent EPA RSL.

TABLE 5-1
Environmental Fate and Transport Parameters for Individual Constituents
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	Density at 15 to 25°C (g/mL)	Water Solubility at 20-25°C (mg/L)		Vapor Pressure (mm Hg)	Henry's Law Constant (atm·m³/mol)		K _{oc} (L/kg)	Log K _{ow}	Diffusion Coefficient in Air (cm²/s)	Diffusion Coefficient in Water (cm²/s)	Susceptible to Photolysis (halflife in days)		Susceptible to Hydrolysis (halflife in days)		Susceptible to Biodegradation (halflife in days)		Fish BCF [fresh water] (L/kg)	
HALOGENATED VOCs																		
1,1,1-Trichloroethane	1.3	C	1.33E+03	A	1.2E+02	C	1.72E-02	A	1.10E+02	A	2.48	A	7.80E-02	A	8.80E-06	A	Negligible	I,J
1,1,2,2-Tetrachloroethane	1.5	C	2.97E+03	A	4.6E+00	C	3.45E-04	A	9.33E+01	A	2.39	A	7.10E-02	A	7.90E-06	A	Negligible	I,J
1,1,2-Trichloroethane	1.4	C	4.42E+03	A	2.3E+01	C	9.13E-04	A	5.01E+01	A	2.05	A	7.80E-02	A	8.80E-06	A	Negligible	I,J
1,1-Dichloroethane	1.1	C	5.06E+03	A	2.2E+02	C	5.62E-03	A	3.16E+01	A	1.79	A	7.42E-02	A	1.05E-05	A	Negligible	I,J
1,1-Dichloroethene	1.2	C	2.25E+03	A	6.0E+02	C	2.61E-02	A	5.89E+01	A	2.13	A	9.00E-02	A	1.04E-05	A	Negligible	I,J
1,2-Dichloroethane	1.2	C	8.52E+03	A	7.8E+01	C	9.79E-04	A	1.74E+01	A	1.47	A	1.04E-01	A	9.90E-06	A	Negligible	I,J
Bromodichloromethane	1.9	C	6.74E+03	A	5.0E+01	C	1.60E-03	A	5.50E+01	A	2.10	A	2.98E-02	A	1.06E-05	A	Unavailable	
Carbon tetrachloride	1.5	C	7.93E+02	A	1.1E+02	C	3.04E-02	A	1.74E+02	A	2.73	A	7.80E-02	A	8.80E-06	A	Negligible	I,J
Chloroform	1.4	C	7.92E+03	A	1.9E+01	C	3.67E-03	A	3.98E+01	A	1.92	A	1.04E-01	A	1.00E-05	A	Negligible	I,J
cis-1,2-Dichloroethene	1.2	C	3.50E+03	A	2.0E+02	C	4.08E-03	A	3.55E+01	A	1.86	A	7.36E-02	A	1.13E-05	A	Negligible	I,J
Tetrachloroethene	1.6	C	2.00E+02	A	1.8E+01	C	1.84E-02	A	1.55E+02	A	2.67	A	7.20E-02	A	8.20E-06	A	Negligible	I,J
Trichloroethene	1.4	C	1.10E+03	A	6.9E+01	C	1.03E-02	A	1.66E+02	A	2.71	A	7.90E-02	A	9.10E-06	A	Negligible	I,J
Vinyl chloride	0.91	C	2.76E+03	A	2.9E+03	C	2.70E-02	A	1.86E+01	A	1.50	A	1.06E-01	A	1.23E-06	A	Negligible	I,J
NON-HALOGENATED VOCs																		
1,4-Dioxane	1.0	C	1.0E+06	C	3.8E+01	C	4.8E-06	C	1.70E+01	G	0.27	C	8.7E-02	E	1.0E-05	E	Unavailable	
Acetone	0.78	C	1.00E+06	A	2.3E+02	C	3.88E-05	A	5.75E-01	A	-0.24	A	1.24E-01	A	1.14E-05	A	No	H
Benzene	0.87	C	1.75E+03	A	9.4E+01	C	5.55E-03	A	5.89E+01	A	2.13	A	8.80E-02	A	9.80E-06	A	6.7E+02	C
Ethylbenzene	0.86	C	1.69E+02	A	9.6E+00	C	7.88E-03	A	3.63E+02	A	3.14	A	7.50E-02	A	7.80E-06	A	Negligible	I,J
Formaldehyde	0.81	E	5.5E+05	E	5.2E+03	E	3.4E-07	E	3.69E+01	G	-0.05	E	1.7E-01	E	1.7E-05	E	Unavailable	
Toluene	0.86	C	5.26E+02	A	2.8E+01	C	6.64E-03	A	1.82E+02	A	2.75	A	8.70E-02	A	8.60E-06	A	Negligible	I,J
Xylenes, Total	0.86	C*	1.75E+02	A*	7.9E+00	C*	6.73E-03	A*	3.86E+02	A*	3.17	A*	7.80E-02	A*	8.75E-06	A*	Unavailable	
BASE-NEUTRAL EXTRACTABLE SVOCs - POLYCYCLIC AROMATIC HYDROCARBONS																		
2-Methylnaphthalene	1.0	C	2.4E+01	C	5.5E-02	C	5.1E-04	C	6.82E+03	D	3.8	C	5.22E-02	D	7.75E-06	D	2.2E+00	C
Acenaphthene	1.2	C	4.24E+00	A	2.1E-03	C	1.55E-04	A	7.08E+03	A	3.92	A	4.21E-02	A	7.69E-06	A	2.5E+00	C
Acenaphthylene	0.89	C	1.6E+01	C	6.6E-03	C	1.1E-04	C	2.76E+03	D	3.9	C	4.40E-02	D	7.50E-06	D	Negligible	I
Anthracene	1.2	C	4.34E-02	A	6.5E-06	C	6.50E-05	A	2.95E+04	A	4.55	A	3.24E-02	A	7.74E-06	A	3.1E-02	C
Benzo(a)anthracene	1.3	C	9.40E-03	A	2.1E-07	C	3.35E-06	A	3.98E+05	A	5.70	A	5.10E-02	A	9.00E-06	A	2.4E-02	C
Benzo(a)pyrene	1.4	E	1.62E-03	A	5.4E-09	C	1.13E-06	A	1.02E+06	A	6.11	A	4.30E-02	A	9.00E-06	A	2.2E-02	C
Benzo(b)fluoranthene	Unavailable		1.50E-03	A	5.00E-07	G	1.11E-04	A	1.23E+06	A	6.20	A	2.26E-02	A	5.56E-06	A	Unavailable	
Benzo(g,h,i)perylene	Unavailable		2.6E-04	C	1.0E-10	C	3.3E-07	C	3.86E+06	D	6.6	C	2.01E-02	D	5.30E-06	D	Negligible	I
Benzo(k)fluoranthene	Unavailable		8.00E-04	A	9.6E-10	C	8.29E-07	A	1.23E+06	A	6.20	A	2.26E-02	A	5.56E-06	A	2.0E+01	C
Chrysene	1.2	C	1.60E-03	A	6.2E-09	C	9.46E-05	A	3.98E+05	A	5.70	A	2.48E-02	A	6.21E-06	A	1.8E-01	C
Dibenz(a,h)anthracene	1.282	G	2.49E-03	A	9.5E-10	C	1.47E-08	A	3.80E+06	A	6.69	A	2.02E-02	A	5.18E-06	A	3.2E+01	C
Fluoranthene	1.2 (0°C)	C	2.06E-01	A	9.2E-06	C	1.61E-05	A	1.07E+05	A	5.12	A	3.02E-02	A	6.35E-06	A	2.6E+00	C
Fluorene	1.2	C	1.98E+00	A	6.0E-04	C	6.36E-05	A	1.38E+04	A	4.10	A	3.63E-02	A	7.88E-06	A	Unavailable	
Indeno(1,2,3-c,d)pyrene	Unavailable		2.20E-05	A	1.2E-10	C	1.60E-06	A	3.47E+06	A	6.65	A	1.90E-02	A	5.66E-06	A	2.5E+02	C

TABLE 5-1
Environmental Fate and Transport Parameters for Individual Constituents
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituent	Density at 15 to 25°C (g/mL)		Water Solubility at 20-25°C (mg/L)		Vapor Pressure (mm Hg)		Henry's Law Constant (atm-m ³ /mol)		K _{oc} (L/kg)		Log K _{ow}		Diffusion Coefficient in Air (cm ² /s)		Diffusion Coefficient in Water (cm ² /s)		Susceptible to Photolysis (halflife in days)	Susceptible to Hydrolysis (halflife in days)	Susceptible to Biodegradation (halflife in days)		Fish BCF [fresh water] (L/kg)			
Naphthalene	1.0	C	3.10E+01	A	8.5E-02	C	4.83E-04	A	2.00E+03	A	3.36	A	5.90E-02	A	7.50E-06	A	5.5E+02	C	No	/	9.0E+00	C	1.30E+05	C
Phenanthrene	0.98	C	1.1E+00	C	1.2E-04	C	4.2E-05	C	2.65E+04	D	4.4	C	3.33E-02	D	7.50E-06	D	3.4E-01	C	No	/	2.0E+02	C	1.10E+04	C
Pyrene	1.2	C	1.35E-01	A	4.5E-06	C	1.10E-05	A	1.05E+05	A	5.11	A	2.72E-02	A	7.24E-06	A	2.8E-02	C	No	/	1.8E+03	C	8.40E+06	C
Carbazole	1.1	C	7.48E+00	A	7.5E-07	C	1.53E-08	A	3.39E+03	A	3.59	A	3.90E-02	A	7.03E-06	A	Yes	L	No	/	Unavailable		1.10E+02	C
Dibenzofuran	1.0	C	3.1E+00	C	2.4E-03	C	2.1E-04	C	8.13E+03	F	4.1	C	Unavailable		Unavailable		Unavailable		No	/	2.8E+01	C	1.35E+03	L
BASE-NEUTRAL EXTRACTABLE SVOCs - OTHER																								
bis(2-Ethylhexyl)phthalate	0.98	C	3.40E-01	A	1.4E-07	C	1.02E-07	A	1.51E+07	A	7.30	A	3.51E-02	A	3.66E-06	A	2.0E+02	C	7.3E+05	C	8.0E-01	C	1.00E+05	C
1,2,4-Trichlorobenzene	1.40	C	3.00E+02	A	4.6E-01	C	1.42E-03	A	1.78E+03	A	4.01	A	3.00E-02	A	8.23E-06	A	Negligible	I,J	1.2E+03	C	2.2E+01	C	5.60E+03	C
PESTICIDES AND POLYCHLORINATED BIPHENYLS																								
4,4'-DDD	1.385	G	9.00E-02	A	1.3E-06	C	4.00E-06	A	1.00E+06	A	6.10	A	1.69E-02	A	4.76E-06	A	Negligible	I,J	1.0E+04	C	5.6E+03	C	1.60E+06	C
4,4'-DDT	0.98-0.99	G	2.50E-02	A	1.6E-07	C	8.10E-06	A	2.63E+06	A	6.53	A	1.37E-02	A	4.95E-06	A	Negligible	I,J	8.0E+03	C	5.6E+03	C	3.60E+05	C
delta-BHC	Unavailable		3.14E+01	F	1.70E-05	F	2.07E-07	F	6.60E+03	F	4.10	F	Unavailable		Unavailable		Negligible	I,J	No	I,J	Unavailable		1.30E+02	F
Dieldrin	1.7	C	1.95E-01	A	5.8E-06	C	1.51E-05	A	2.14E+04	A	5.37	A	1.25E-02	A	4.74E-06	A	Negligible	I,J	3.8E+03	C	1.0E+03	C	5.70E+05	C
Endosulfan I	1.7	C	5.10E-01	A	3.0E-06	C	1.1E-05	A	2.14E+03	A	4.10	A	1.15E-02	A	4.55E-06	A	Negligible	I,J	3.5E+05	C	1.4E+01	C	1.00E+04	C
Endosulfan sulfate	Unavailable		2.20E-01	G	1.0E-11	G	2.61E-05	G	1.02E+03	D	3.66	G	1.10E-02	D	4.40E-06	D	Unavailable		No	I,J	Unavailable		4.90E+04	C
Endrin	Unavailable		2.50E-01	A	3.0E-06	C	7.52E-06	A	1.23E+04	A	5.06	A	1.25E-02	A	4.74E-06	A	Slight	I	No	I,J	Unavailable		4.00E+03	F
Endrin aldehyde	Unavailable		2.4E-02	C	2.0E-07	C	4.1E-06	C	6.31E+04	G	4.80	C	Unavailable		Unavailable		Unavailable		No	I,J	Unavailable		up to 1.10E+04	G
Endrin ketone	Unavailable		Unavailable		Unavailable		2.02E-08	G	Unavailable		4.99	G	Unavailable		Unavailable		Unavailable		Unavailable		Unavailable		3.50E+03 (estimated)	G
gamma-BHC (Lindane)	1.8	C	6.80E+00	A	4.2E-05	C	1.40E-05	A	1.07E+03	A	3.73	A	1.42E-02	A	7.34E-06	A	Negligible	I	2.0E+02	C	4.1E+02	C	2.90E+05	C
Heptachlor epoxide	Unavailable		2.00E-01	A	1.9E-05	C	9.50E-06	A	8.32E+04	A	5.00	A	1.32E-02	A	4.23E-06	A	Unavailable		No	I,J	5.2E+02	C	1.40E+04	C
Methoxychlor	1.4	C	4.50E-02	A	2.5E-06	C	1.58E-05	A	9.77E+04	A	5.08	A	1.56E-02	A	4.46E-06	A	1.3E+02	C	3.8E+02	C	3.6E+02	C	8.50E+03	C
PCBs (Aroclor-1248)	Unavailable		7.0E-01	C**	4.9E-04	C**	4.1E-04	C**	3.09E+05	B**	7.1E+00	C**	1.75E-02	D	8.00E-06	D	Negligible	F	No	F	Unavailable		4.10E+04	C**
PCBs (Aroclor-1260)	1.62	G	7.0E-01	C**	4.9E-04	C**	4.1E-04	C**	3.09E+05	B**	7.1E+00	C**	1.75E-02	D	8.00E-06	D	Negligible	F	No	F	Unavailable		4.10E+04	C**
CYANIDES																								
Cyanide	0.6884 (HCN)	G	9.5E+04	C	3.0E+02	C	2.4E-02	C	9.90E+01 (Kd)	A	-6.9E-01	C	Unavailable		Unavailable		Negligible	I	Yes	I	Yes	G	4.70E-01 to 1.62E+00	G

NOTES:

Parameter values are from the following references:

A - Soil Screening Guidance: Technical Background Document. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Washington, DC. EPA/540/R-95/128. May 1996.

B - Soil Screening Guidance User's Guide. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Washington, DC. EPA/540/R-96/018. July 1996.

C - Superfund Chemical Data Matrix (SCDM) Methodology. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation, Washington, DC. June 20, 2014.

D - Inhalation Exposure Pathway Soil Remediation Standards, Basis and Background. New Jersey Department of Environmental Protection. June 2008.

E - Industrial Waste Air Model (IWAIR) Technical Background Document. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC. EPA 530-R-02-010. August 2002.

F - Superfund Public Health Evaluation Manual. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Washington, DC. OSWER Directive 9285.4-1. October 1986.

G - Toxicological Profiles. Agency for Toxic Substances and Disease Registry. <http://www.atsdr.cdc.gov/toxprofiles/index.asp>. Accessed on October 13, 2014.

H - Howard, P.H., 1990. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, Volume II. Lewis Publishers, MI.

I - Clement Associates, 1985. Chemical, Physical and Biological Properties of Compounds Present at Hazardous Waste Sites.

J - Aquatic Fate Process Data for Organic Priority Pollutants. U.S. Environmental Protection Agency, Office of Water Regulations and Standards, Washington, DC. EPA 440/4-81-014. December 1982.

K - Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities, Peer Review Draft. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC. EPA 530/D-99/001B. August 1999.

J - CHEMFATE - Environmental Fate Database. SRC, Inc. [Http://esc.syrres.com/scripts/CHFcgi.exe](http://esc.syrres.com/scripts/CHFcgi.exe). 2001.

* - Average of values for individual xylene isomers.

** - Values for general category of polychlorinated biphenyls (PCBs).

Table 5-2
Summary of Behavioral Characteristics that Control Environmental Fate and Transport of Organic Constituents
Mountain Top RI/FS
Mountain Top, Pennsylvania

Contaminant Class	Aqueous Solubility	Volatility	Adsorptive Affinity	Photolysis Susceptibility	Hydrolysis Susceptibility	Biodegradation/Biotransformation	Oxidation	Bioaccumulation/Bioconcentration
VOLATILE ORGANIC COMPOUNDS (VOCs)								
Halogenated VOCs	High to Very High	Very High	Very Low	Very Low	Very Low	Low	Very Low	Very Low
Non-halogenated VOCs	High to Very High	High to Very High	Very Low to Medium	Very Low	Very Low	High	Very Low	Very Low
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)								
PAHs / Carbazole / Dibenzofuran	Low to Medium	Low	Medium to High	Low to Medium	Very Low	Low to High	Very Low to Low	Very Low to Medium
Phthalates	Medium to High	Low	Very High	Low	Low	Medium to High	Very Low	Low
Chlorobenzenes	Medium to High	Medium to High	Medium to High	Very Low	Very Low	Low	Very Low	Very Low to High
PESTICIDES AND PCBs								
Pesticides	Very Low to Low	Very Low	High to Very High	Low	Very Low	Low	Very Low	High to Very High
PCBs	Very Low	Very Low	Very High	Low	Very Low	Very Low	Very Low	Very High
CYANIDES								
Cyanide	High to Very High	Very Low to Very High	Very Low to Low	Medium to Very High	Medium to Very High	High	Low	Very Low

Table 5-3
Summary of Behavioral Characteristics that Control Environmental Fate and Transport of Metal Constituents
Mountain Top RI/FS
Mountain Top, Pennsylvania

Constituents	Vapor Pressure at 20°C (mm Hg)		Kd* (L/kg)		Fish BCF (L/kg)		Mobility Under pH Conditions**				Immobilization Factors		
							Acid < 5.5	Neutral 5.5 - 7.0	Alkaline > 7.0		Fe/Mn Oxides	Organic Matter	Other
Aluminum	--		1500	B	<300	C	Very Low	Very Low	Very Low	E,F	--	--	Oxidizing conditions
Antimony	--		45	B	1	A	Low	Low	Low	E,F	Yes	--	Sulfide; reducing conditions
Arsenic	--		200	B	44	A	Medium	Medium	Medium	E,F	Yes	--	Sulfide; clays
Barium	--		60	B	633	D	Low	Low	Low	E,F	--	--	Sulfide; reducing conditions; carbonate; clays
Cadmium	--		6.5	B	81	A	Medium	Medium	Medium	E,F	--	--	Reducing conditions
Chromium	--		850	B	16	A	Very Low	Very Low	Very Low	E,F	--	--	--
Cobalt	--		45	B	Unavailable		High	Medium	Very Low to Low	E,F	Yes	--	--
Copper	--		35	B	200	A	High	Medium to Low	Very Low	E,F	Yes	Yes	Sulfide; adsorption
Iron	--		25	B	Unavailable		High to Very Low	Very Low to Medium	Very Low	E,F	Yes	--	Oxidizing conditions
Lead	--		900	B	49	A	Low	Low	Low	E,F	Yes	Yes	Insoluble carbonate, sulfate, phosphate; reducing conditions
Manganese	--		65	B	<600	C	High	High	High to Very Low	E,F	Yes	--	Clays
Mercury [aqueous]	--		10	B	5500	A	Medium	Low	Low	E,F	Yes	--	Sulfide
Mercury [vapor]	1.20E-03	A	--	--	--		High	High	High	E,F	--	--	--
Nickel	--		150	B	47	A	High	Medium to Low	Very Low	E,F	--	--	Sulfide; adsorption; silicate materials
Selenium	--		300	B	16	A	Low	Medium	Very High	E,F	Yes	Yes	Sulfide; reducing conditions; adsorption
Silver	--		45	B	3080	A	High	Medium to Low	Very Low	E,F	Yes	Yes	Reducing conditions; sulfide
Thallium	--		1500	B	10,000	D	Low	Low	Low	E,F	--	--	Reducing conditions; sulfide
Vanadium	--		1000	B	Unavailable		High	High	Very High	E,F	--	--	Silicate minerals; reducing conditions; adsorption
Zinc	--		40	B	78,000	H	High	High to Medium	Low to Very Low	E,F	Yes	Yes	Sulfide; carbonate; phosphate

NOTES:

-- = Not Applicable

Parameter values are from the following references:

A - Superfund Public Health Evaluation Manual. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Washington, DC. OSWER Directive 9285.4-1. October 1986.

B - Baes, C.F., R.D. Sharp, A.L. Sjoreen and R.W. Shor. A Review and Analysis of Parameters for Assessing Transport of Environmentally Released Radionuclides Through Agriculture. Report prepared by Oak Ridge National Laboratory, Oak Ridge, TN for US Department of Energy. ORNL-DWG81-15953. 1984.

C - Toxicological Profiles. Agency for Toxic Substances and Disease Registry. <http://www.atsdr.cdc.gov/toxprofiles/index.asp>. Accessed on October 13, 2014.

D - Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities, Peer Review Draft. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC. EPA 530/D-99/001B. August 1999.

E - Drever, J.I. The Geochemistry of Natural Waters: Surface and Groundwater Environments. Third Edition. Prentice Hall. 436 pp. 1997.

F - Fetter, C.W. Contaminant Hydrology. Second Edition. Prentice Hall. 500 pp. 1999.

G - Water-Related Fate of 129 Priority Pollutants. U.S. Environmental Protection Agency. EPA 440/4-79-029. 1979.

H - Superfund Chemical Data Matrix (SCDM) Methodology. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation, Washington, DC. June 20, 2014.

* - Dissociation constant (Kd) between soil and water matrices.

** - The listed tendencies apply primarily to conditions in aqueous media.

TABLE 5-4
Comparison of Historic and RI Data - Former FWEC Facility
Mountain Top RI/FS
Mountain Top, Pennsylvania

	Number of Analyses	Number of Detections	Minimum Detection or Detection Limit (ug/L)	Maximum Detection (ug/L)	Location and Date of Maximum Detection	Number of Exceedences of USEPA MCL (5 ug/L)
TCE in Historic Sampling (circa 1989 to 2008)	607	436	< 0.4	180,000	MW-4 in Former Vapor Degreaser Area in October 1989	360
TCE in RI (2012 to 2014)	81	61	< 0.09	4,900	MD-01 in Former Vapor Degreaser Area in September 2013	25

Notes:

< - Indicates constituent was not detected and the lowest detection limit in the sample set.

USEPA - United States Environmental Protection Agency

MCL - Maximum Contaminant Level

TABLE 5-5
Comparison of Historic and RI Data - Surrounding Industrial Properties
Mountain Top RI/FS
Mountain Top, Pennsylvania

	Number of Analyses	Number of Detections	Minimum Detection or Detection Limit (ug/L)	Maximum Detection (ug/L)	Location and Date of Maximum Detection	Number of Exceedences of USEPA MCL (5 ug/L)
TCE in Historic Sampling (circa 2004 to 2007)	44	36	< 0.5	290	EPA-2D near CertainTeed in May 2005	6
TCE in RI (2012 to 2014)	105	86	< 0.09	310	RMW-01D near CertainTeed in April 2014	77

Notes:

< - Indicates constituent was not detected and the lowest detection limit in the sample set.

USEPA - United States Environmental Protection Agency

MCL - Maximum Contaminant Level

TABLE 5-6
Comparison of Historic and RI Data - Affected Area
Mountain Top RI/FS
Mountain Top, Pennsylvania

	Number of Analyses	Number of Detections	Minimum Detection or Detection Limit (ug/L)	Maximum Detection (ug/L)	Location and Date of Maximum Detection	Number of Exceedences of USEPA MCL (5 ug/L)
TCE in Historic Sampling (circa 2004 to 2007)	767	431	< 0.4	270	RW05 (Property #11 based on coordinates) in October 2004	321
TCE in RI (2012 to 2014)	88	72	< 0.09	110 / 86 *	RMW-09S-1 along Church Road In April 2014 / RMW-09S-2 and RMW-09D-1 in May 2013 *	51

Notes:

< - Indicates constituent was not detected and the lowest detection limit in the sample set.

USEPA - United States Environmental Protection Agency

MCL - Maximum Contaminant Level

* TCE concentration in RMW-09S-1 in April 2014 deemed anomalous in comparison to prior and subsequent results from well location. Excluding this result, maximum concentration would be present in both RMW-09S-2 and RMW-09D-1 (86 ug/L). See Sections 2.11.10 and 5.3.3 of the text for additional discussion.